# HRCI का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित PUBLISHED BY AUTHORITY

**並**o 30] No. 30] नई दिल्ली, शनिवार, जुलाई 28, 1990 (श्रावण 6, 1912) NEW DELHI, SATURDAY, JULY 28, 1990 (SRAVANA 6, 1912)

इस माग में मिन्न पृष्ठ संख्या दी जाती है जिससे कि यह आलग संकलन के रूप में रखा जा सके [Separate paging is given to this Part in order that it may be filed as a separate compilation]

# माग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्अन्धित अधिसूचनाएं और नोटिस [Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS

Calcutta, the 28th July 1990

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1-G-167 G1/90

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The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

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Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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### पेटेंट कार्यालय

# एकस्व तथा अभिकल्प

# कलकत्ता, दिनांक 28 जुलाई 1990

# पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा अम्बई, दिल्ली एवं मदास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जीन के आधार पर निम्न रूप में प्रदर्शित हैं:—

पेटेंट कार्यालय शाखा, टोडी इस्टेट, तीसरा तल. लोअर परेल (पश्चिम), सम्बद्ध-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोला, दमन तथा दिव एवं दादरा और नगर हवेली।

तार पता—''पेटोफिस''

पेटेंट कार्यालय शाखा, इकाई सं० 401 से 405, तीसरा तल, नगरपालिका बाजार भवन, सरस्वती मार्ग, करोल बाग, नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा विक्ली। तार पता—''पेटेंटोफिक'' पेटेंट कार्यालय शास्त्रा, 61, वाजाजाह रोड, महास-600 002

आंच्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्रीप, मिनिकॉय तथा एमिनिदिवि दीप।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय (प्रधान कार्यालय), निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन 5, 6 तथा 7वां तज, 2,34/4, आचार्य जगदीश बोस रोड, कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—''पेटेंटस''

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में डी प्राप्त किए जाएंगे।

शुष्क : —शुष्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य घनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक द्वाफ्ट अथवा चैक द्वारा की जा सकती हैं।

### PATENT OFFICE BRANCH, BOMBAY-400 013

# CORRIGENDUM

- (I) Gazette of India, Part III, Section 2, dated 3rd March, 1990
  - In respect of Patent No. 166045 (221/Bom/1986) on page No. 212 for application date read 'August 13, 1986' for 'August 13, 1985'.
- (II) Gazette of India, Part III, Section 2, dated 10th March, 1990
  - (1) In respect of 16/Bom/1990 on page No. 222 under Applications for patents filed in Bombay Branch read application No. "16/Bom/1990" for "46/Bom/1990".
  - (2) In respect of patent No. 166078 (61/Bom/1988) on page No. 247 delete "complete specification left on 11-3-1988"

### THE PATENT OFFICE

Calcutta, the 28th July, 1990

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

### The 20th June, 1990

514/Cal/90. Tractel Tirfor India Pvt. Ltd. Improvements in or relating to suspension bearing of a hoist or lifting equipment.

515/Cal/90. Fuji Kura Ltd. An assembly for sealing cable junctions. [Divisional date October 23, 1987].

# 21st June, 1990

516/Cal/90. Oliver Rubber Company. Adjustable tire recapping apparatus.

517/Cal/90. Samsung Electron Devices Co., Ltd. Characteristics inspecting device for cathode ray tube.

518/Cal/90. Samsung Electron Devices Co. Ltd. Attaching-Detaching device for shadow mask frame assembly of cathode ray tube.

### The 22nd June, 1990

'519/Cal/90. N. V. Phillips' Gloeilampensabrieken. Reversible Cassette.

520/Cal/90,	CF & I Steel Corporation. Continuous rail production.	511/IDel/90.	Sinvent AS, "Trans-critical vapour compression cycle device".
521/Cal/90.	Hollandse Signaalapparaten B. V. Pulse radar apparatus and pulse discrimination circuit suitable for incorporation in a pulse radar apparatus.	512/Del/90.	The Lubrizol Corporation, "Lubricating oil com- positions and concentrates".
		513/IDel/90.	The Lubrizol Corporation, "Alpha-olefin polymers",
	The 25th June, 1990		The 29th May, 1990
522/Cal/90.	M/s. Projects & Development India Limited. A process		
	for the manufacture of phosphoric acid from low grade rock phosphate.		Indian Institute of Technology, "A transducer".
		515/Del/90.	Alcan International Ltd., "Process and apparatus for
523/Cal/90.	Pennwalt Corpn. An Electrolytic cell for brine electrolytes. [Divisional date 22nd October, 1986].		melting contaminated metalliferous scrap material". (Convention date 29th May, 1989) (Canada).
524/Cal/90.	Barbara Ashton. Temperature control system for vehicles.	516/Del/90.	Imperial Chemical Industries PLC, "Emulsification method and apparatus". (Convention date 16th June & 23rd June, 1989) (U.K.)
525/Cal/90.	Elpatronic Ag. Apparatus for removing blanks from a		
## (G 1 D )	pile and conveying them onwards.	517/Del/90.	GEC Alsthom SA, "A high tension circuit breaker having a dielectric blast gas".
526/Cal/90.	Franz Buttner Ag. Refillable ink ribbon cartridge.	518/Del/90.	The Lubrizol Corporation, "A process for preparing a
527/Cal/90.		31 ty (2017-90).	lubricant additive". [Divisional date 27th March, 87].
	for pollutant material. (Convention date 22nd August, 1989; No. 608,996; Canada)	519/Del/90.	International Business Machines Corporation.
	1909, 140. 000,990, Canada)	213/12C1/30.	International Business Machines Corporation, "Reducing magnetic radiation extending outside CRT
528/Cal/90.	Monoj Kumar Choudhury. A process for dry beneficia- tion of coal with provision for utilisation of by-product		display apparatus". (Convention date 7th March, 90) (U.K.).
	low heat value coal and improvement of crushing and		
	pulverising apparatus for its application.	520/Del/90.	Lenox Institute for Research, Inc, "Improved water clarifying apparatus".
	The 26th June, 1990		
630 KG 1 80	Yes Tal Table A. A. C. a	521/ <b>Del/90</b> .	Alcan International Ltd., "Process and apparatus for
529/Cal/90.	ICI India Limited. A process for the preparation of optically active (R or S)-aryl-propionic acids from non-		producing a gas which is substantially free of uncom-
	chiral ∝ -acrylacrylates.		bined oxygen from air". (Convention date 29th May, 1989) (Canada).
530/Cal/90.	Westinghouse Electric Corporation. Improvements in or relating to rotary waterwall combuster with improv-		The 30th May, 1990
	ed tire attachment.	522/Del/90.	Whirlpool Corporation, "PSC motor for automatic washer".
531/Cal/90.	Hi-Tek Polymers, Inc. Aqueous Epoxy resin acrylic		
	resin coating compositions.	523/Del/90.	Harjinder Kaur, "A device for the use on the public hydran.s and the like places".
532/Cal/90.	Mitsuba Electric Manufacturing Co., Ltd. Rotor for		
	magneto generator.	524/Del/90	Dor baj GmbH, "Procedure and device for distilling
	LICATIONS FOR PATENTS FILED AT THE		ex a-water and for extracting electrical energy and raw material of the sea-water".
r	'ATENT OFFICE BRANCH, MUNICIPAL MARKET, BUILDING, IIIRD FLOOR	525/Del/90.	STC DIC "Onticel receivers" (Convention date Oth
	KAROL BAGH, NEW DELHI-5	323) Dei/ 90.	STC PLC, "Optical receivers". (Convention date 9th June, 1989) (U.K.)
	The 28th May, 1990	526/Del/90.	Hiroshi Yamaguchi & Hiroshi Kiumura, "Rotary ring for spinning.".
509/Del/90.	UOP, "Multizone catalytic reforming process with a plurality of catalysts".		The 31st May, 1990
\$10/D=1/00	UOP, "Improved catalyst and process for sweetening a	637/TN=1/00	Monthless Value 60 5 5 5
J10/1961/30.	sour hydrocarbon stream".	527/IDel/90.	Munishwar Kumar, "Rail belt curved conveyor system".

APPLICATIONS FOR PATENTS FILED IN THE PATENT
OFFICE BRANCH AT TODI ESTATES, HIRD FLOOR,
SUN MILL COMPOUND, LOWER PAREL (WEST),
BOMBAY-13

### The 21st May, 1990

- 133/Bom/90. Rajendrakumar Jekishandas Patel & Jatin Rajendrakumar Patel. Hand Mixer.
- 134/Bom/90. Voltas Limited. Direct drive system for air-conditioning of light commercial vehicles.

### The 22nd May, 1990

- 135/Bom/90. Dr. Chandrakant Dnyandev Lokhande. Improvements in or relating to solution growth method for deposition of group V-VI compound thin films.
- 136/Bom/90. Dr. Chandrakant Dnyandev Lokhande. A process for the deposition of Indium Selenide compounds from an aqueous bath on metallic substrates.

### 25th May 1990

- 137/Bom/90. Vartak Vilas Bhalchandra. The low frequency sin, square triangular waves generator with the linearly voltage controlled phaseshift.
- 138/Bom/90. Vartak Vilas Bhalchandra. The linearly voltage controlled phaseshift of triangular wave, without using any inductor or condensor, or gyrator, R.A.M./R.O.M. and phaselockloop for deciding the phaseshift value.

### The 30th May, 1990

- 139/Bom/90. Hindustan Lever Ltd. Shampoo Composition. (The 30th May 1989, Gr. Britain)
- 140/Bom/90. Anant Ramchandra Vaze. Quick anihilator of fire.

# APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

### The 11th June, 1990

- 451/Mas/90. Lucas Industries Public Limited Company. A spottype disc brake including a floating caliper and a preasure plate.
- 452/Mas/90. The Dow Chemical Company. A process for preparing flexible polyurethane foam using l, l, l-Trichloroethane as a blowing agent.
  - . Mas/90. Industrial Insulations of Texas, Inc. Apparatus and method for making V-groove insulation.
- 454/Mas/90. Carclo Engineering Group plc. Flats for carding machines. (June 14, 1989; United Kingdom)
- 455/Mas/90. State of Israel, Represented by the Prime Minister's Office, The Israel Institute for Biological Research. A process for preparing spiro-oxathiolane/quinuclidine compounds. (Divisional to Patent Application No. 695/Mas/88).

# The 12th June, 1990

456/Mas/97. Konarak Industria, Mechanical stroke counter.

- 457/Mas/90. Pilkington PLC. Glass melting. (No. 8913539.6; Britain).
- 458/Mas/90. Maschinenfabrik Rieter AG. Transport air control.
- 459/Mas/90. Maschinenfabrik Rieter AG. A method of blending textile fibers
- 460/Mas/90. Uddeholm Licensing Aktiebolag. Method and apparatus for the production of metal granules.
- 461/Mas/90. Vellaiappan Velayudham Thangathiruppathy. A new device to prevent the burning of paper wrapper of a cigarette in the cigarette smoking pipe.
- 462/Mas/90. Concept RKK Limited. Closed Cryogenic Barrier for containment of hazardous material migration in the earth.

### The 13th June, 1990

- 463/Mas/90. Nokia-Maillefer Holding S.A. Carriage for the transportation of a cylindrical object.
- 464/Mas/90. Masg Gear-Wheel & Machine Company Limited. Method of producing porfiled workpieces.
- 465/Mas/90. Akebono Brake Industry Co., Ltd. A device and method for siphoning liquid from a plated object during plating process.
- 466/Mas/90. Membrance Products Kiryat Weizmann Ltd. Process & Apparatus for the removal of undesired components from aqueous feedstocks.

### The 14th June, 1990

- 467/Mas/90. Thirugnanasundaram sivasubramanian. An electrically operated flying model toy chaser aeroplanes.
- 468/Mas/90. K. Pannir Selvam. Automatic level controller.
- 469/Mas/90. K. Pannir Selvam. Liquid level controller.
- 470/Mas/90. AVT Anlagen-und Verfahrenstechnik GmbH. Rotary slide valve or switch.
- 471/Maa/90. Ciba-Geigy AG. Container. (June 30, 1989; Great Britain)

### The 15th June, 1990

- 472/Man/90. K.V. Chandrashekar. A novel energy saving process of and an apparatus for melting of non-ferrous metals and heat treatment of salts.
- 473/Maa/90. Tirupattur Damodara Rao. Marine coastal collector well system.
- 474/Mas/90. Roberto Jorge Haddock Lobo. A steering wheel with protection against stealing vehicle.
- 475/Mas/90. Kazuo Nakano. Generator.

### **ALTERATION**

166880 Anti-dated 28th November, 1985. (457/Cal/88)

### PRINTING SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and Delhi at two rupees per copy.

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### PATENTS SEALED

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CAL—10. DEL—1. MAS—1. BOM—2.

### **AMENDMENT PROCEEDING UNDER SECTION 57**

(1)

Proposed amendments under section 57 of the Patents Act, 1970 in respect of Patent No. 165092 (359/Mas/85) as advertised in the Gazette of India dated 3-2-1990 have been allowed.

(2

Proposed amendments under section 57 in respect of Patent No. 163425 (1009/Mas/84) as advertised in the Gazette of India dated 24-2-90 have been allowed.

### RENEWAL FEES PAID

145101	145616	145993	146826	146848	147047	147121
147556	148100	148213	148231	148502	148557	148693
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162920	162943	162955	163110	163163	163389	163412
163458	163470	163619	163658	163660	163706	163863
164229	164230	164261	164264	164266	164280	164301
164653	164687	164703	164721	164760	164913	165286
165470	165532	165566	165568	165577.		

### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

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# स्वीकृत सम्पूर्ण विनिर्देश

एतइद्वारा यह सूचना वी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के मीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिवेश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगंत विनिवेशों की सीमित संख्यक में मुद्रित प्रतियों, भारत सरकार मुक हिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यद्यासमय उपरच्य होगी। प्रस्थेक विनिवेश का मूल्य 2-/ ७० है (यदि मारत के बाहर मेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिवेश की आपूर्ति हेतु मांग पत्र के साथ निम्नितिखित सूची में यस्पाप्रविशित विनिवेशों की संख्या संतरन रहनी चाहिए।

रूपांकन (चित्र आरंखों) की फोटो प्रतियां, यदि कोई हों, के साथ विनिदेशों की टेकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकसा द्वारा विहित सिप्यान्तरण प्रमार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिदेश की पूछ संख्या के साथ प्रत्येक स्वीकृत विनिदेश के सामने नीचे वर्णित चित्र आरंख कागजों को जोइकर उसे 4 से गुणा करके (क्योंकि प्रत्येक पूछ का सिप्यान्तरण प्रमार 4/- ए० है) फोटो सिप्यान्तरण प्रमार का परिकक्षन किया जा सकता है। CLASS: 127-E, F, G, I. In . Class: F 16 h 3/00, 5/00. 166841

A COMBINED RANGE AND SPLITTER TYPE AUXILIARY TRANSMISSION SECTION FOR COMPOUND CHANGE GEAR TRANSMISSIONS.

Applicant: EATON CORPORATION, OF 1111 SUPERIOR AVENUE, CLEVELAND, OHIO 44114, U.S.A.

Inventor: JOHN ROLAND VANDERVOORT.

Application No. 61/Cal/1987 filed on January 20, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 4 Claims

A combined range and splitter type auxiliary transmission section (102) for a compound change gear transmission (100) comprising a main transmission section (12A) connected in series with an auxiliary transmission section, said auxiliary transmission section comprising a housing (H), an auxiliary section input shaft (28A) extending into said housing and driven by said main transmission section and an output shaft (122) extending from said housing, said auxiliary transmission section characterized by;

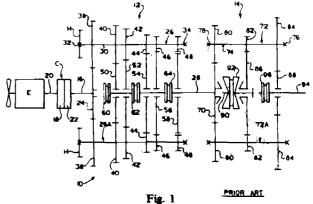
a splitter gear (118), a splitter/range gear (120) and a range gear (124) all generally coaxial with and rotatable relative to said auxiliary section input shaft and said output shaft;

an auxiliary section countershaft assembly (104) comprising an auxiliary countershaft (106) rotationally supported in said housing, a first auxiliary countershaft gear (112) rotationally fixed to said auxiliary countershaft and constantly meshed with said splitter gear, a second auxiliary countershaft gear (114) rotationally fixed to said auxiliary countershaft and constantly meshed with said splitter/range gear and a third auxiliary countershaft gear (116) rotationally fixed to said auxiliary countershaft and constantly meshed with said range gear;

a two-position splitter clutch assembly (126) fixed for rotation with said auxiliary section input shaft and having a first position for coupling said splitter gear to said auxiliary section input shaft and a second position for coupling said splitter/range gear to said auxiliary section input shaft;

a two-position range clutch assembly (128) fixed for rotation with said output shaft and having a first position for coupling said splitter/range gear to said Output shaft and a second position for coupling said range gear to said output shaft; and

control means (142, 164) for independently positioning each of said splitter clutch assembly and range clutch assembly in a selected one of the two positions thereof.



Compl. Specn. 16 Pages.

Drgs. 7 Sheets.

CLASS: 70-Ca

166842

Int. Class : C 25 d 3/00.

A PROCESS FOR PRODUCING SURFACE TREATED METAL FOIL AND AN APPARATUS THEREFOR.

Applicant: GOULD INC.; AT 10, GOULD CENTRE, ROLL-ING MEADOWS, ILLINOIS 60008, U.S.A.

Invertors: (1) BETTY M LUCE, (2) BETTE BERDAN.

Application No. 78/Cal/87 filed on January 27, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 22 Claims

A process for producing surface treated metal foil said process comprising :

providing an electrolytic cell having an electrolyte and a cathodic surface at least partially immersed in said electrolyte, said electrolyte containing a concentration of metal ions, such as copper-sulfate solution applying a first current density in a first zone for plating a relatively smooth metal foil deposit on said cathodic surface; said first current density applying step comprising applying a first current density having a magnitude less than a limiting current density, said limiting current density having been determined based on parameters like gap between the anode and cathode, the speed of the cathode drum, the concentration of metal ions, thereby allowing for example a range of about  $0.4 \text{ A/cm}^2$  to about  $2.4 \text{ A/cm}^2$  but not necessarily limited thereto, as said first current density and

applying a pulsed second current density having a magnitude greater than the said limiting current density, said limiting current density having been determined based on parameters like gap between the anode and cathode, the speed of the cathode drum, the concentration of metal ions, thereby allowing for example a range of about 1.1, A/cm² to about 6 A/cm² but not necessarily limited thereto as said second current density forming a plurality of nucleation sites on said metal foil deposit which adhere to said metal foil without the need for an additional metal deposit on said metal foil for firmly bonding said nucleation sites to said metal foil in said second zone.

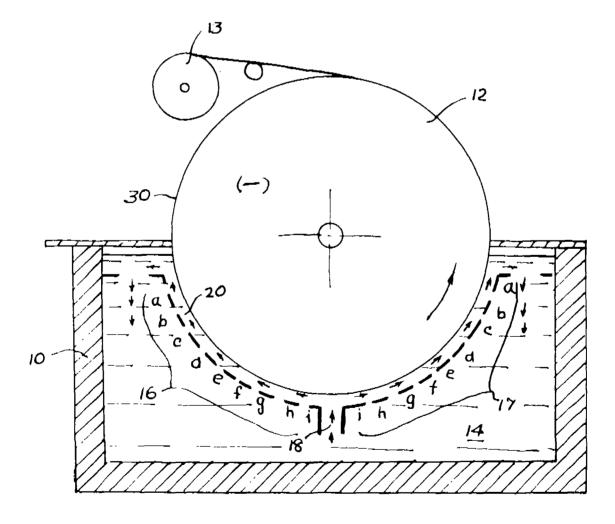


Fig. 3

CLASS: 107-G. Int. Class: F 23 k 1/02

166843

AN IMPROVED METHOD FOR PRODUCING AN AQUEOUS SLURRY COMPRISING SOLID CARBONACEOUS FUEL AND RECYCLE CARBON CONTAINING PARTICULATE SOLIDS OF A DESIRED SOLIDS CONCENTRATION.

Applicant: TEXACO DEVELOPMENT CORPORATION, 2000 WESTCHESTER AVENUE, WHITE PLAINS, NEW YORK 10650, U.S.A.

Inventor: MICHAEL CHESLEY MARTIN.

Application No. 133/Cal/87 filed on February 18, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 6 Claims

An improved method for producing an aqueous slurry comprising solid carbonaceous fuel and recycle carbon containing particulate solids of a desired solids concentration for feeding to the partial oxidation gas generator in a partial oxidation process for reacting an aqueous slurry of ash-containing solid carbonaceous fuel feedstream and a free-oxygen containing gas feedstream in the reaction zone of a refractory lined free-flow noncatalytic gas generator at a temperature in the range of about 1700° to 3000°F and a pressure in the range of about 1 to 300 atmospheres to produce an effluent gas stream comprising H2CO, CO2, at least one material from the group consisting of H<sub>2</sub>O, H<sub>2</sub>S, COS, N<sub>2</sub> and Ar and entrained particulate matter containing carbon; and cleaning and cooling the effluent gas stream with water in a gas quenching and cleaning zone to remove substantially all of the entrained particulate matter as an aqueous dispersion of recycle particulate solids and to produce a cooled and cleaned effluent gas stream, the improvement comprising;

- (1) introducing the solid carbonaceous fuel feed directly into a size reduction zone (10), wherein weigh belt feeding means controls the feed rate of the solid carbonaceous fuel feed and there is no valving means in the flow path between the weigh belt feeding means and the size reduction zone;
- (2) pumping an aqueous slurry of recycle carbon-containing particulate solids directly into said size reduction zone with no valving means in the line:
- (3) supplying make-up water into the size reduction zone, at an optimum rate to provide the slurry of desired solids concentration, the desired rate of flow of the make-up water having been determined by automatically computing signals corresponding to (a) the feed rate for the solid carbonaceous fuel in step (1) on a weight basis (b) the weight fraction of moisture in the fuel in step (1) (c) the volumetric feed rate of the said slurry (d) the weight fraction of recycle particulate solids in the slurry in step (2) (e) the density of water at the temperature of the slurry in step (2) (f) the density of the particulate solids, said signals having been generated using known methods;
- (4) grinding together said solid carbonaceous fuel feed from step (1), alurry of recycle particulate solids from step (2), and make-up water from (3) in said size reduction zone to produce an aqueous slurry with said desired solids concentration, the total amount of water in the solid carbonaceous fuel in step (1) and in the aqueous slurry of solid carbonaceous fuel in step (2) being less than the water in the aqueous slurry produced in step (4).

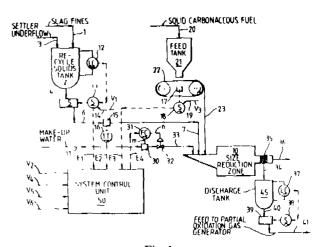


Fig. 1 Compl. Specn. 21 pages.

Drgs. 2 shects.

166844

Class: 35-B

Int. Class: F 27 b 15/00.

PLANT FOR MANUFACTURING CEMENT CLINKER.

Applicant: KAWASAKI JUKOGYO KABUSIIIKI KAISHA, OF 1-1, HIGASHIKA WASAKI—CHO 3 CHOME, CHUO-KU, JAPAN.

Inventors: (1) JUNE TATEBAYASHI,

- (2) TOMOAKI TAKADA.
- (3) KIMITAKA HAYASHI,
- (4) CHIKANORI KUMAGAI.

Application No. 243/Cal/1987 filed on March 26, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patents Office, Calcutta.

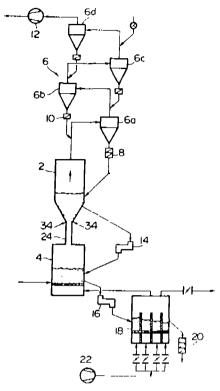
# 16 Claims

A plant for manufacturing cement clinker comprising:

a suspension preheater for preheating a cement material powder;

granulating and sintering means connected to the suspension preheater for granulating and sintering the preheated cement material powder and provided with a spouted bed;

- a burner for forming a local hot region in the spouted bed;
- a charging chute provided slightly above the local hot region and adapted for charging the preheated cement material powder from the suspension preheater; and
- a discharge chute disposed on one side of the local hot region and adapted for discharging the coment raw material which has been at least granulated.



Compl. Specn. 31 Pages.

Drgs. 13 sheets.

Class: 190-D

Int. Class: H 05 d 13/00.

166845

AN APPARATUS FOR CONTROLLING A VARIABLE SPEED WIND TURBINE-GENERATOR AT IMPROVED EFFICIENCY AND AT OTHER THAN A CRITICAL SPEED.

Applicant: UNITED TECHNOLOGIES CORPORATION, A 1 FINANCIAL PLAZA, HARTFORD, CONNECTICUT 06101, U.S.A.

Inventors: (1) JOSEPH MICHAEL KOS, (2) ALLEN FLOYD RAPP.

Application No. 330/Cal/1987 filed on April 27, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 3 Claims

Apparatus for controlling a variable speed wind turbinegenerator at improved efficiencies and at other than a critical speed, comprising:

a speed sensor (50,158) responsive to either the wind turbine rotor or generator rotor speed for providing a sensed turbine-generator speed signal (48, 162);

a power sensor (54), responsive to the power ou.put of the generator for providing a sensed power signal (52);

low-pass filter means (52b), responsive to said sensed power signal for providing a first order lag time constant filtering of said sensed power signal as a filtered power signal (52a);

a controller (36), responsive to the sensed speed signals (48,162) and to the sensed and filtered power signals (52, 52a) for providing a wind turbine-generator torque control signal (56) for controlling the generator torque for maneuvering the turbine motor tip speed below the torque limit of the wind turbine at a selected constant velocity ratio with respect to wind speed and at speeds greater than those dictated by the constant velocity ratio above the torque limit upto a speed or power limit while holding torque constant; and said controller (36) controlling the generator torque for maneuvering the rotor tip speed above the torque limit so as to avoid commanding a critical speed.

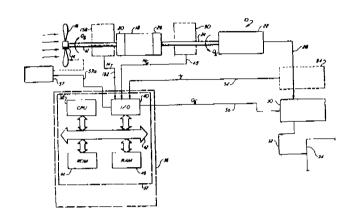


Fig. 1

Compl. Specn. 30 Pages.

Drgs. 3 sheets.

166846

Class: 123 Int. Class: C 05 b 11/00, 15/00, 17/00

A PROCESS FOR MANUFACTURE OF UREA-NITRATE PHOSPHATE FERTILIZER.

Applicant: PROJECTS & DEVELOPMENT INDIA LIMITED OF P.O. SINDRI, PIN 828122, DHANBAD, BIHAR, INDIA.

Inventors: (1) DR. ALAKH DHARI PANDEY,

- (2) DR LALLU SINGH,
- (3) DR. RAM CHANDRA YADAV,
- (4) DR. KRISHNA MOHAN VARMA

Application No. 342/Cal/1987 filed on April 29, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

# 10 Claims

A process for the manufacture of urea-nitrate-phosphate fertiliser which comprises subjecting rock phosphate to a step of digestion with nitric-acid of 50 to 60% strength in the presence of small quantity of strong sulphuric acid to obtain an acidulated slurry, mixing an urea melt to the said slurry followed by subjecting the mixed slurry to a step of dehydration at temperatures around 90°C and therefore, subjecting the dehydrated slurry to a step of cooling and granulation, wherein the amount of urea melt is 1 to 2 times by weight of the rock phosphate and wherein urea melt at temperatures of around 125 to 145°C is subjected to mixing with the acidulatory slurry which is at a temperature in the region of 60 to 95°C preferably at around 75 to 95°C for sufficient time until a uniform melt is obtained.

Compl. Specn. 8 Pages.

Drgs. NIL.

Class: 32-C; 39-Q Int. Class: C 21 c 7/064. 166847

PROCESS FOR DESULFURZING ORGANIC POLYSUL-

Applicant: PENNWALT CORPORATION, THERE PARKWAY, PHILADELPHIA, PENNSYLVANIA 19102, UNITED STATES OF AMERICA.

Inventors: (1) JEFFREY HSING-GAN YEN,

- (2) GLEN THOMAS CARROLL,
- (3) WILLIAM JOSEPH TUSZYNSKI,
- (4) VIJAY RAJU SRINIVAS.

Application No. 386/Cal/87 filed on May 14, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rulea, 1972), Patent Office, Calcutta.

### 8 Claims

A process of removing sulfur from a stream of an organic polysulfide of high sulfur rank comprising:

- (a) continuously contacting said stream of organic polysulfide with a countercurrent stream of an immiscible aqueous stripping solution having at least one sait of the formula Y2S and/or ZSH, wherein Y is selected from Group IA of the Periodic table or NR1 R1R4 where R1, R2, R3 and R4 are independently selected from H, and alkyl of 1-20 carbons, aryl of 6—14 carbons and alkylaryl of 7—34 carbons, and Z is selected from Y or group IIA of the Periodic Table, and having a molar ratio of the sulfide ion to the recoverable sulfur in the organic polysulfide of from 0.10 to 0.70, said continuous contacting occuring by mixing said streams in at least two, successive, multi-stage, direct contact-reaction zones to form at each such successive stage an aqueous phase of increased sulfur content and an organic phase containing a polysulfide of lower sulfur rank;
- (b) separating said aqueous and organic streams between each direct contact-reaction zone and thereafter directing each stream to a different zone until all zones of the system are traversed, said aqueous stream always being directed to that zone to which a polysulfide of sulfur rank higher than that in the zone already traversed is present:
- (c) recovering the polysulfide of low sulfur rank after traversal of the last zone by said polysulfide, and;
- (d) optionally discarding said aqueous stream or recovering sulfur by precipitation from said aqueous stream after traversal of the last zone.

Compl. Specn. 15 Pages.

Drg. 1 sheet.

CLASS: 191.

166848

Int. Class: B 41 m 5/00.

PRESSURE SENSITIVE COLOUR TRANSFER SHEET AND PROCESS OF MAKING SAME.

Applicant: BUSINESS FORMS LIMITED, OF 6A MID-DLETON STREET, CALCUTTA-700071, WEST BENGAL, INDIA.

Inventors: (1) MR. ARUN SUD, (2) DR. SANKAR KUMAR PAUL.

Application No. 418/Cal/87 filed on May 25, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 4 claims

A pressure-sensitive color transfer sheet containing an electron donating chromogenic color former as herein defined for use in combination with a second sheet containing an electron accepting color developer as herein defined said color former being dispersed in a known hydrophilic colloid solution to form substantially cluster-free microcapsules, the said colloid solution containing a water soluble graft copolymer having a backbone of carboxymethyl cellulose or gum arabic and side chains of polyacrylic acid polymethacrylic acid, said side chains comprising from 5 to 10 per cent by weight of said copolymer, said copolymer being in an amount 12.5 to 25% by weight of said colloid material amount of colour former being selected on the basis of colour density desired.

Comp. Specn. 14 Pages.

Drgs. NIL.

CLASS: 89

Int. Class: G 01 b 17/00.

166849

A BORE MAPPING APPARATUS FOR A TURBINE ROTOR BORE

Applicant: WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTS-BURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors: (1) LAWRENCE DARRELL NOTTINGHAM, (2) THOMAS ELLSWORTH MICHAELS, (3) JENNIFER EMMONS MICHAELS.

Application No. 433/Cal/1987 filed June 02, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

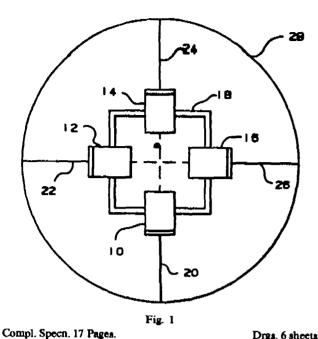
### l claim

A bore mapping apparatus for a turbine rotor bore (28), characterized by

a shear wave mode inspection transducer (72) producing an inspection beam (76) incident on a rotor bore surface (28) at a circumferential position on the bore;

a compressional ranging transducer (70), producing an ultrasonic ranging beam pulse (74) at a known angle q with respect to the inspection transducer (72) and normally incident on the bore surface (28) at the circumferential position and receiving a reflection of the ranging beam pulse from the bore surface (28); and

surface time calculation means (38) for measuring a ranging travel time  $T_r$  between the transmission of the ranging beam pulse (74) and the reflection, calculating a surface time  $T_i$  in accordance with  $T_i = T_k + (T_r - T_k)/\cos q$ , where  $T_k$  is a calibration inspection time and  $T_m$  is calibration ranging time produced in a calibration bore, and producing surface times for different circumferential positions.



Drgs. 6 sheets.

CLASS: 146-D2, D1 166850

Int CL: D 01 g 23/00; D 01 h 9/00, 13/00; G 01 S 17/08.

APPARATUS FOR DETECTING THE LEVEL OF FIBRE MATERIAL IN A FIBRE MATERIAL STORE.

Applicant: TRUTZCHLER GMBH & CO. KG., OF DUVENSTR. 82-92, D-4050, MONCHENGLADBACH 3, WEST GERMANY.

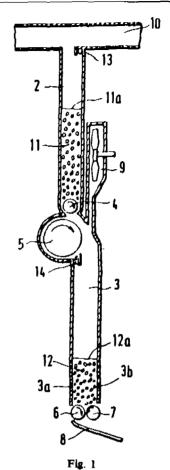
Inventor: FRITZ HOSEL

Application No. 451/Cal/1987 filed on June 10, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 9 Claims

An apparatus for detecting the level of fibre material in a fibre material store, the apparatus comprising means for transmitting light onto the surface of the fibre material and means for receiving the light reflected from the surface of the fibre material, said transmitting and receiving means being arranged above the level of the fibre material, said receiving means provided with means for emitting an analog signal being a function of the intensity of the received light, an analog to digital convertor connected to the said analog signal emitting means, a computerized data processing means connected to said analog to digital convertor for processing of digital signal to indicate the level of the fibre-material in the store.



Compl. Specn. 13 Pages.

Dres. 2 sheets.

166851

Ind. Cla: 32 F1 Int. Cl.: CO 9 K 19/04.

A FERROELECTRIC SMECTIC LIQUID CRYSTAL MIX-TURE.

Applicant: THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND, A BRITISH CORPORATION SOLE, OF WHITE-HALL, LONDON SWIA 2HB, ENGLAND AND STC PLC, A BRITISH COMPANY, OF STC HOUSE, 190 STRAND, LONDON WC2R 1 DU ENG. AND.

Inventors: LAWRENCE KAM MING CHAN; DAVID COATES; PETER ALAN GEMMELL; GEORGE WILLIAM GRAY; DAVID LACEY; KENNETH JOHNSON TOYNE; DANIEL JAMES STEPHEN YOUNG; ADAM JACKSON; RICHARD MICHAEL SCROWSTON AND MATTHEW FRAN-CIS BONE.

Application for Patent No. 939/Del/85 filed on 11th November, 1985. Convention date 11th January, 1985/8500765 & 26th January, 1985/8501999/(U.K.).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule, 1972), Patent Office Branch, New Delhi-110 005.

### 12 Claims

A ferroelectric smectic liquid crystal mixture consisting of two constituents which may each be single chemical compounds or mixtures of compounds, the first constituent being chiral and the second constituent exhibiting a tilted smectic liquid crystalline phase, characterised in that said first constituent is or contains one or more derivatives of a naturally occurring compounds having a chiral group and which has a molecular structure in which the chiral group of the molecule is sterically hindered with respect to the main molecular core.

Compl. Specn. 41 Pages.

Drgs. 10+1 sheets.

Ind. Cl.: 40 B.

Int. Cl. 4 : B 01 J 21/04.

166852

METHOD AND APPARATUS FOR PRODUCING ALUMINA BASED CATALYST PARTICLES CONTAINING A REDUCED PLATINUM METAL.

Applicant: UOP INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL OFFICE LOCATED AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016, U.S.A.

Inventor: ARTHUR RAYMOND GREENWOOD.

Application for Patent No. 158/Del/86 filed on 25th February, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-5.

### 5 Claims

A method for producing alumina based catalyst particles containing a reduced platinum metal useful in the processes herein described which comprises:

(a) continuously passing upwardly a reducing gas comprising hydrogen through a high pressure lower zone and a lock hopper zone to an upper low pressure zone, continuously adding alumina based catalyst particles containing oxidized platinum metal to the said low pressure zone while simultaneously transferring the said catalyst particles downward from the upper zone to the lower zone via the lock hopper zone which is in communication with the upper zone and lower zone by upper particle transfer conduit and lower particle transfer conduit respectively, the gas from the lower zone passes through the lower particle transfer conduit to the hopper zone at a rate which prevents downward flow of particles from the lock hopper zone to the lower particle transfer conduit, simultaneously passing gas from the lock hopper zone to the upper zone by an upper gas conduit and thereby equalizing pressure between the lock hopper zone and the upper zone and allowing particles to fill a lower portion of the upper zone, the upper particle transfer conduit, a lower portion of the lock hopper zone and the lower particle transfer conduit till the level of particles in the lock hopper zone is at the lower end region of the upper particle transfer conduit when flow of particles down-stream through the upper particle transfer conduit into the lock hopper is prevented;

- (b) increasing the internal pressure of the lock hopper zone to a value equal to the pressure of the lower zone which is in the range of 30 to 40 psig by stopping gas flow through the upper gas conduit and passing gas from the lower zone to the lock hopper zone by means of a lower gas conduit which communicates and substantially equalizes pressure between these zones thereby causing particles to flow downward through the lower particle transfer conduit into the lower zone, and than again flowing the gas from the lock hopper zone to the upper zone by means of the upper particle transfer conduit; at a gas rate which prevents downward flow of particles through the upper particle transfer conduit; and.
- (c) stopping gas flow through the lower gas conduit when the level of particles in the lock hopper zone falls to a previously determined low level point and simultaneously establishing a flow of gas in the zones in a manner as specified in step (a) thereby stopping particle flow out of the lower particle transfer conduit the lower zone and allowing particles to flow out of the upper particle transfer conduit and into the lock hopper zone.

Compl. Specn. 26 Pages.

Drgs. 2 sheets.

Ind. Cl.: 32 F

Int. Cl.4 : C 08 F-2/04; 2/06.

166853

A PROCESS FOR THE ELECTROSYNTHESIS OF CONDUCTING POLYTHIENYLENES.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(a): MUTHANA THEVARVIYAYAN & SETHURA-MAN PITCHUMANI & VENKATA SUBRAMANIAN KRI-SHNAN.

Application for Patent No. 276/Del/86 filed on 25th March, 1986.

Complete Specification Left on 5th June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-10005.

### 14 Claims

A process for the electrosynthesis of conducting polythienylenes which comprises electropolymersing thienylene monomer in a supporting electrolyte selected from acetonitrile containing tetra butyl ammonium tetra fluoroborate, sodium, perchlorate or potasium hexafluoro arsenate, in an electro chemical cell having a stainless steel anode and a cathode such as herein described at a current density of 3.5-5A/cm<sup>2</sup>.

(Provision Specification—4 pages). (Complete Specification—10 pages).

Int. Cl. 4: CO 4 B 7/43

166854

Ind. Cl. : 35 C.

PROCESS FOR HEAT TREATING FINE-GRAINED MATERIAL.

Applicant: O & K ORENSTEIN & KOPPEL AKTIENGE-SELLSCHAFT.

Inventor(s): HANS-DIETMAR MAURY & WOLFGANG BUSLOWSKI.

Application for Patent No. 425/Del/86 filed on 13th May, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-5.

### 3 Claims

A process for heat treating fine-grained material, especially for the production of cement, which comprises subjecting said fine grained material to a plurality of preheating steps, precalcining said preheated material and roasting said precalcined material in the presence of a main fuel and a primary air fed counter-current to the flow of said precalcined material, the exhaust gases from said roasting step flowing substantially upwardly, condensing said roasted material with a secondary air being fed in a direction counter current to the flow of said roasted material so the secondary air is heated during the counter-current flow, separating a tertiary air from said heated secondary air, supplying a supplementary fuel for providing energy for said precalcining step, separating said tertiary air to an upper and lower partial currents for combusting said supplementary fuel, characterised in that said supplementary fuel is fed exclusively to the lower partial current so that it is subjected to a sub-stoichiometric combustion and thereafter, said sub-stoichiometric combusted supplementary fuel is contacted with said upper partial current so that complete combustion of said supplementary fuel takes place to provide energy for said precalcination and that said material to be treated is fed for precalcination above said upper partial current after complete combustion of said supplementary fuel has taken place.

Compl. Specn. 18 Pages.

Drgs. 2 sheets.

166855

Ind. Cl.: 11 C Int. Cl.4: A 22 B 5/00

L4: A 22 B 5/00

# DEVICE FOR HOLDING ANIMAL CARCASSES

Applicant: ESTABLISSEMENTS ARRIVE S.A., A FRENCH COMPANY, OF SAINT FULGENT, VENDEE, FRANCE AND UNION FINANCIERE POHR LE DEVELOPMENT DE L'ECONOMIE CEREALIERE UNIGRAINS, A FRENCH COMPANY, OF 8, AVENUE DU PRESIDENT WILSON, PARIS 16EME, SEINE, FRANCE.

Inventors: DANIEL VILLEMIN, PAUL ROMAND.

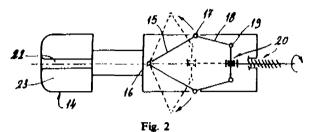
Application for Patent No. 440/Del/86 filed on 16th May, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

### 10 Claims

A holding device for animal carcasses, characterised in that it comprises a rigid elongated body (12) for introduction into a carcass, said elongated body (12) having two body parts (13, 14) axially movable with respect to each other, each of said two body parts (13, 14) being provided with locking means (15-19,24) for engaging firmly the inside of said carcass, said two body parts (13, 14) being fitted one into the other and having displacement means for extending one said body part (14) with respect to the other said body part (13) and for

postioning said one body part (14) in a predetermined position in said carcass, control means (20) connected to said locking means (15—19, 24) for spreading said locking means (15—19,24) to lock said body firmly against the insides of said carcass, and a vertically adjustable support (25) for initially supporting said elongated body (12) on insertion thereof into said carcass and connected to lower portion of said elongated body (12).



Compl. Specn. 10 Pages.

Drgs. 2 sheets.

166856

Ind. Cl. : 50D Int. Cl. : B60H 3/00.

SCROLL TYPE COMPRESSOR.

Applicant: SANDEN CORPORATION, A JAPANESE COM-PANY, OF 20 KOTOBUKI-CHO, ISESAKI-SHI, GUNMA 372, JAPAN.

Inventors: KOYOSHI TERAUCHI & ATSUSHI MABE.

Application for Patent No. 566/Del/86 filed on 30th June, 1986.

Appropriate Office for Opposition Proceeding (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

### 3 Claima

A scroll type compressor (1) including a housing (10) having an inlet port (31) and an outlet port (32), a fixed scroll (21) positioned within said housing and having a circular and plate (211) from which a first spiral element (212) extends into the interior of said housing, an orbiting scroll (22) having a circular end plate (221) from which a second spiral element (222) extends, said first spiral element (212) which is radially offset from said second spiral element by a predetermined distance, interfits with said second spiral element at an offset angle of 180° to form at least one pair of fluid pockets (9, 10) within the interior of said housing a driving mechanism (13) connected to said orbiting scroll to effect the orbital motion of said orbiting scroll (22), a rotation preventing mechanism (24), for preventing the rotation of said orbiting scroll during the orbital motion, said circular end plate (211) of said fixed scroll (21) dividing the interior of said housing into front chamber (27) and rear chamber (28), said front chamber communicating with said inlet port (31), and said rear chamber (28) being divided into discharge chamber (281) which communicates between said outlet port and a central fluid pocket formed by both said scroll (21, 22) and an intermediate pressure chamber (282), at least one pair of holes (214, 215) formed through said circular end plate (211) of said fixed scroll (21) to provide a fluid channel between the fluid pockets and said intermediate pressure chamber (282), a channel (29) provided through said circular end plate of said fixed scroll (21) to constitute means for flow of fluid between said intermediate pressure chamber and said front chamber (27), control means (36) provided on a portion of said intermediate pressure chamber (282) for controlling the flow of said fluid between said intermediate pressure chamber and said front chamber (27), said control means (36) comprising a valve element (39) operated by the

166857

compressed fluid in said discharge chamber (281), and a cylinder, a piston (362) slidably positioned within said cylinder, and a control valve element, a top portion of said cylinder (361) being connected to said discharge chamber (281), said control valve element (37) controlling the communication between said discharge chamber (281) and said front chamber (27).

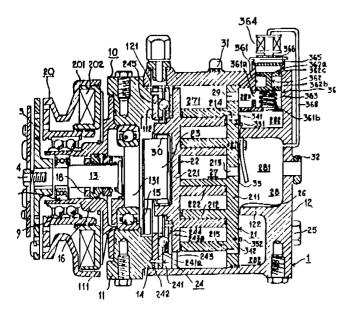


Fig. 1

Compl. Specn. 23 Pages.

Drgs. 5 Sheets.

Ind. Cl.: 128 G

Int. Cl.: A 61M 25/00

### A CATHETER.

Applicant & Inventors: LEIF NILSSON, A SWEDISH CTTIZEN OF BALBARSVAGEN 1, S-260 40 VIKEN, SWEDEN.

Application for Patent No. 601/Del/86 filed on 9th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

### 10 Claims

A catheter for insertion into the urethra leading to the urinary bladder of a human being for the purpose of emptying said bladder which comprises a flexible, tubular catheter body (10) incorporating at one end thereof an insertion section (11) provided with a urine inlet and with means (27) for holding the catheter within the urethra and at the opposite end thereof with a discharge section (12) which is spaced from the insertion section (11) said discharge section (12) being connected to a urine collecting vessel characterised in that the interior of the insertion section (11) supports a sieve or filter element (14) and in that means are provided within said insertion section for generating tubulence in the flow of urine through the catheter so as to prevent foreign particles in the urine from settling in the urine inlet.

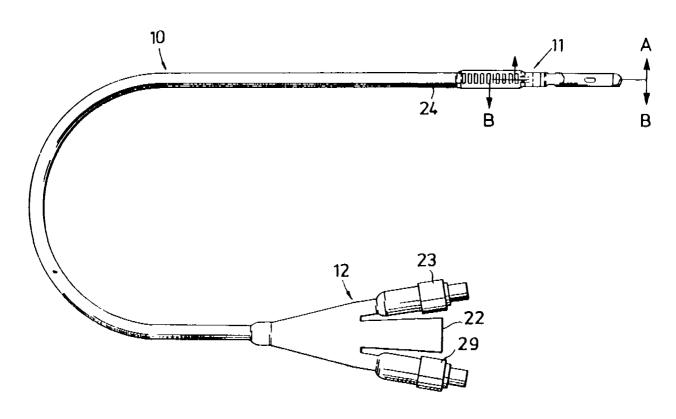


Fig. 1

Int. Cl.: C 04 B 33/32

Ind. CL: 35 E

166858

A PROCESS FOR PRODUCING SINTERED DEAD BURNT MATERIALS.

Applicant: FULLER COMPANY, OF 2040 AVENUE C.P.O. BOX 2040 BETHLEHEM, PENNSYLVANIA 18001 UNITED STATES OF AMERICA, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventor: SIDNEY MART IN COHEN.

Application for Patent No. 622/Del/86 filed on 14th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

### 4 Claims

A process for producing sintered dead burnt materials such as clay, dolomite, magnesite or perclase with a desired particle specific gravity which comprises the steps of calcining of the raw materials while the raw materials is in suspension in a calcining furnace at a temperature in the range of 1000° to 1200°C forming the calcined materials into nodules; and sintering the nodules at a temperature in the range of approximately 1650° to 1850°C, characterised in that said nodules are formed from said bakined materials without prior hydration of said calcined material and while said calcined materials has a temperature of approximately 1000°C and that the hot nodules are directly supplied to said sintering furnace for sintering thereof.

Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Ind. CL: 170-A

166859

Int. CL: C 11 D 1/00, 1/02, 1/66, 1/86.

ANTISTATIC LAUNDRY DETERGENT COMPOSITION.

Applicant: COLGATE PALMOLIVE COMPANY, OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventora: EDUARDO PUENTES BRAVO, MARCEL GILLIS & ANDREAS JAN SOMERS.

Application for Patent No. 629/Del/86 filed on 15th July 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

### 8 Claims

An antistatic laundry detergent composition in solid form and which is compatible with clay mineral fabric softener, said composition comprising spray-dried beads composed of a homogeneous mixture of

10 to 60% by weight of at least one pH and heat insensitive detergent compound selected from the group consisting of anionic synthetic detergent as herein described, nonionic synthetic detergent as herein described, zwitterionic synthetic detergents as herein described, ampholytic synthetic detergents as herein described, and mixtures thereof;

5 to 90% by weight of at least one pH and heat insensitive inorganic or organic detergent builder salt as herein described;

0.4 to 15% by weight of water soluble diammonium compound antistatic agent selected from the compounds of the general formula I

$$\left(\begin{array}{c}
R_1 - N_{1} \\
R_{3}
\end{array}\right) \left(\begin{array}{c}
R_{11} \\
R_{31}
\end{array}\right) \left(\begin{array}{c}
R_{11} \\
R_{22}
\end{array}\right) \left(\begin{array}{c}
R_{11}$$

Foumula I

of the drawings wherein  $R_1$  is an aliphatic hydrocarbon having from 12 to 30 carbon atoms;

each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>3</sub> and R<sub>5</sub> are independently selected from the group consisting of aliphatic hydrocarbon groups having from 1 to 22 carbon atoms with the proviso that the total number of carbon atoms in all the aliphatic hydrocarbon group, including R<sub>1</sub>, is no more than about 75 and with the further proviso that no more than three of the R<sub>2</sub>—R<sub>5</sub> group have more than 12 carbon atoms; and alkanol group of the formula II

### Formula II

of the drawings wherein m and n are independently o or positive numbers with the sum of m and n from all of the groups R2—Rs being at least 2 but no more than 30; with the still further provise that at least one of R2—Rs is said alkanol group;

R<sub>7</sub> is a divalent linking radical, such as C<sub>2</sub>—C<sub>5</sub> lower alkylene or substituted C<sub>2</sub>—C<sub>5</sub> lower alkylene,

K is a number from 1 to 20, and

× is a water—soluble salt forming anion;

and 5 to 50% by weight of one more of pH and heat insensitive detergent additives as herein described, fillers as herein described and moisture.

Compl. Specn. 40 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 140 Az

166860

Int. Cl.4; C10M 123/00, 123/02, 04

A WATER BASED FUNCTIONAL FLUID THICKENING COMPOSITION.

Applicant: THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BOULEVARD WICKLIFFE, OHIO 44092 U.S.A., A CORPORATION OF THE STATE OF OHIO, U.S.A.

Inventors: JOHN WESLEY FORSBERG & RICHCARD WILLIAM JAHNKE.

Application for Patent No. 682/Del/86 filed on 25th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

### 32 Claims

A water based functional fluid thickening composition comprising (A) at least one pre-prepared water-dispersible reaction product of (A) (I) at least one hydrocarbyl-substituted succinic acid and/or anhydride represented by the formulae IA and I shown

Formula IA
in the accompanying drawings wherein R is a hydrocarbyl group of
from 8 to 40 carbon atoms, with (A) (II) at least one water-dispersible
amine terminated poly (Oxyalkylene), of the kind such as herein described and (B) at least one surfactant of the kind such as herein described, the weight ratio of (A) to (B) being in the range of 1:5, to
5:1.

Compl. Specn. 47 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 55A Int.: Cl. 4: CO2F 1/54.

166861

### A WATER TREATMENT ADDITIVE COMPOSITION

Applicant: ALBRIGHT & WILSON LIMITED, A BRITISH COMPANY, OF ALBRIGHT & WILSON HOUSE, HAGLEY ROAD WEST, OLDBURY, WARLEY, WEST MIDLANDS, ENGLAND.

Inventors: JENNETH GRAHAM COOPER, ROBERT ERIC TALBOT & MALCOLM JOHN TURVEY.

Application for Patent No. 711/Del/86 filed on 5th August, 1986. Convention date August 6, 1985/8519677 & December 20, 1985/8531372/(U.K.).

Appropriate Office for Opposition Proceedings (Rule, 4 Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

### 6 Claims

A water treatment additive composition used for removing slime in industrial water systems, said additive comprises (A) at least one organophosphine compound of the formula (HORPR's), X(n-2) wherein n is 2 or 3 R is an alkylene group of 1 to 4 carbon atoms, each R' may be the same or different and represents an alkyl, alkenyl or hydroxyalkyl group with from 1 to 4 carbon atoms, X is an anion such that the compound is water soluble and y is 1 when n is 2 or otherwise is equal to the valency of X; or a water soluble condensate thereof and (B) a surfactant such as herein described and the proportion of (A) and (B) is from 1:50 to 1,000:1.

Compl. Specn. 21 Pages.

Drg. 1 Shoot.

Ind. Cl.: 39C & 139D Int. Cl.4: COC 1/04. 166862

A PROCESS FOR THE PRODUCTION OF AMMONIA SYNTHESIS GAS.

Applicant: IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON, SWIP 31F, ENGLAND.

Inventor: ALWYN PINTO.

Application for Patent No. 714/Del/86 filed on 7th Aug., 1986. Convention date August 21, 1985/8520892/(U.K.),

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

### 6 Claims

A process for the production of ammonia synthesis gas comprising:

- (a) heating a gas stream consisting of steam and a gas containing nitrogen and oxygen and having an oxygen content in the range 15 to 35% by volume, selected from air, oxygen depleted air, and oxygen enriched air;
- (b) reacting a hydrocarbon feedstock stream with said heated gas stream to give a reformed gas stream containing carbon oxides, hydrogen, nitrogen, methane, noble gases and excess steam, the reactant proportions and the process conditions beings such that the volume ratio of the sum of hydrogen and carbon monoxide to nitrogen in said reformed gas stream is at least 1.2;
- (c) cooling the reformed gas stream and subjecting the cooled gas stream to catalytic shift reaction under process conditions such as to produce a shifted gas stream having a carbon monoxide content under 1% by volume on a dry basis:
- (d) cooling the shifted gas stream and separating unreacted steam therefrom as liquid water so as to produce a raw gas stream;
- (e) removing the carbon oxides, methane, and the excess of nitrogen from the raw gas stream, at least part of the carbon dioxide and carbon monoxide, the excess of nitrogen, and methane being removed by a pressure swing adsorption process producing. The product ammonia synthesis gas stream and a waste gas stream containing carbon dioxide, nitrogen, methane, carbon monoxide, and some hydrogen; and
- (f) burning the waste gas stream and, by heat exchange with the combustion products thereof, heating at the stream or the gas containing nitrogen and oxygen or the gas stream formed therewith, to provide said heated gas stream of step (a) having a temperature of above 500°C.

Compl. Specn. 22 Pages.

Drg. 1 Sheet.

Ind. at accytane: III [XLII(S)], 143 O1[XL(S)] Int. cl.<sup>4</sup>: B 65 € 3/08 166863

APPARATUS AND METHOD OF MANUFACTURING THERMOPLASTIC LABELLED CONTAINERS BY HEAT SHRINKING A WRAP-AROUND THERMOPLASTIC LABEL ON A CONTAINER.

Applicant: OWENS-ILLINOIS GLASS CONTAINER INC., A DELAWARE CORPORATION, U.S.A. OF ONE SEAGATE, TOLEDO, OHIO 43666, UNITED STATES OF AMERICA.

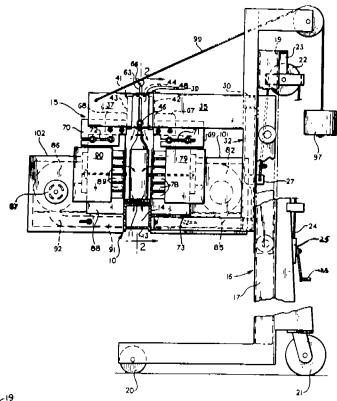
Inventors: (1) ROBERT JAMES BURMEISTER, (2) RUSSELL VILLIAM HECKMAN, (3) FRANK JOSEPH DIFRANK

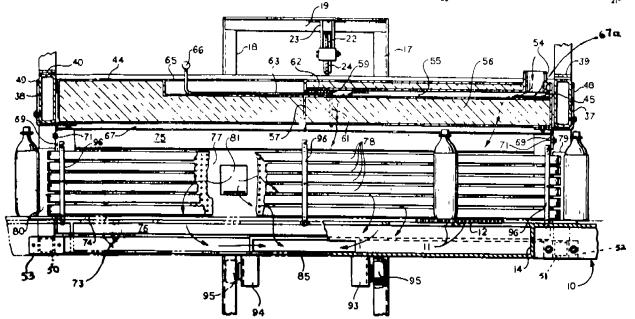
Application No. 121/Mas/86 filed on February 20, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 16 Claims

Apparatus for manufacturing thermoplastic labelled containers by heat shrinking a wrap-around thermoplastic label that extends from adjacent the heal to near the shoulder of the container, the said apparatus comprising a flat top conveyor for transporting the containers in a line, a heated tunnel extending along the sides of said conveyor, said tunnel comprising heater means extending along the length of the conveyor at the level of a label on a container which is transported by said conveyor, said heater means having a plurality of clongated heater elements at vertically spaced intervals and means for blowing air through the spaces between the heaters for shrinking the label and adjustable means extending along a portion of said conveyor length for interrupting the movement of heated air across the conveyor at a selected length of travel of containers through said heater means.





Compl. Specn. 20 Pages.

Drg. 1 Sheet.

Ind. Class: 32-C Int. Cl.4: C 12 N 15/00 166864

A METHOD OF PRODUCING A RESTRICTION GENE BY CLONING.

Applicant: NEW ENGLAND BIOLABS, INC., A MASSA-CHUSETTS CORPORATION, OF BEVERLY, MASSACHU-SEITS, UNITED STATES OF AMERICA. Inventor: GEOFFREY GRAHAM WILSON

Application No. 128/Mas/86 filed on February 24, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patenta Rules, 1972), Patent Office, Madras Branch.

### 8 Claims

A method of production a restriction gene by cloning comprising forming library containing DNA coding for the restriction gene by

purifying DNA from a source containing the restriction gene, partially digesting the purified DNA to form DNA fragments, ligating the fragments into a cloning vector, transforming a host cell with the said closing vector to form a primary cell library, and purifying recombinant vectors from the primary cell library to form a primary vector library, isolating clones which contain the modification gene and acreening the clones containing the modification gene to obtain the restriction gene.

Compl. Specn. 41 Pages.

Drgs. 7 Shoots.

Ind. Class: 32-E-[IX(1)] Int. Cl.4: C 08 F 2/34; 210/02; 4/64 166865

PROCESS FOR SIMULTANEOUSLY DIMERIZING ETHYLENE AND COPOLYMERIZING ETHYLENE WITH THE DIMERIZED PRODUCT.

Applicant: UNION CARBIDE CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF OLD RIDGEBURY ROAD, DANBURY, STATES OF CONNECTICUT 06817, UNITED STATES OF AMERICA.

Inventors: (1) KEVIN JOSEPH CANN, (2) MICHAEL WALTER CHEN, (3) FREDERICK JOHN KAROL

Application No. 163/Maa/86 filed on March 10, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 12 Claims No drawing

A continuous process for simultaneously dimerizing ethylene to produce butene-1 and copolymerizing ethylene with the dimerized product in a fluidized bed, which comprises continuously contacting ethylene in fluidized bed reactor, at a temperature of from 30°C up to 115°C and a pressure of between 70 kPa and 7000 kPa, with a catalytically effective amount of a catalyst system comprising:

(a) a titanium tetrahydrocarbyloxide having the formula

### Ti(OR)

wherein each R is a hydrocarbon radical free from aliphatic unasturation containing from 1 to 12 carbon atoms,

 (b) a magnesium-titanium-based composition having the formula

# Mg\_Ti(OR),X,[ED],

wherein R' is an aliphatic or aromatic hydrocarbon radical containing from 1 to 14 carbon atoms, or COR" wherein R" is an aliphatic or aromatic hydrocarbon radical containing from 1 to 14 carbon atoms,

X is selected from the group consisting of Cl, Br, I, and mixtures thereof.

Ed is an organic electron donor compound selected from the group consisting of alkyl esters of aliphatic and aromatic carboxylic acids, aliphatic ethers, cyclic others and aliphatic ketones, m is 0.5 to 56, n is O, 1 or 2 P is 2 to 116, and Q is 2 to 85

and magnesium-titanium-based composition being diluted with an inert carrier material, and

(c) a trialkylaluminum compound having the formula

### AlR<sub>2</sub>"

wherein each R''' is a saturated hydrocarbon radical containing from 1 to 14 carbon atoms,

said titanium tetrahydrocarbyloxide and said magnesium-titanium-based composition being employed in such amounts as to provide an atomic ratio of titanium in the titanium tetrahydrocarbyloxide to titanium in the magnesium-titanium-based composition of from 0.01:1 to 50:1, and

asid trialkylaluminum compound being employed in an amount such as to provide a total aluminum: titanium atomic ratio of from 5:1 to 500.1.

Compl. Specn. 40 Pages.

Ind. Class: 80-B-[GROUP-VI]

166866

Int Cl.4: B 01 D 29/14

A FLEXIBLE FILTER SUPPORT FOR MICROFILTRATION, ULTRAFILTRATION OR REVERSE OSMOSIS, OF FLUIDS.

Applicant: EPOC LIMITED, A BRITISH COMPANY, OF 6 ESTERBROOKE STREET, HIDE PLACE, WESTMINSTER, LONDON SWI, ENGLAND.

Inventors: (1) ANTHONY LEIGHTON DOWNING, (2) RODNEY CHARLES SQUIRES.

Application No. 169/Mas/86 filed on March 12, 1986.

Convention date: 12th March, 1985. (No. 8506350, Great Britain)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 14 Claims

A flexible filter support for microfiltration, ultrafiltration or reverse oamosia, of fluids, the filter support being in the form of a material such as herein described having two plies which are connected together at parallel, spaced seams to form an integral array of side-by-side, continuous, separate tubes into which will be fed fluid to be filtered, the seams being strong enough to resist a relative pressure of 400 kPa in the tubes and each wall of each tube being highly flexible and being restrained during filtration, when the tubes are under the pressure of the feed, solely by tensile forces in the wall itself, and substantial movement of the wall being possible in the direction at right angles to its face when the pressure on either side of the filter support are equal.

Compl. Specn. 40 Pages.

Drgs. 9 Sheets.

Ind. Class—15—D—[GROUP—LIV (1)] Int. Cl.4-F 16 C 27/00.

166867

A BEARING RACE RETENTION DEVICE AND A METHOD OF MANUFACTURING IT.

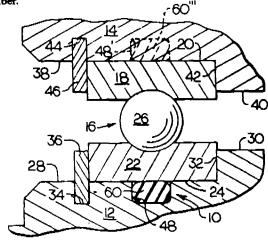
Applicant: CATERPILLAR TRACTOR CO., OF 100 N.E. ADAMS STREET, PEORIA, ILLINOIS 61629—6490, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF CALIFOR-NIA, UNITED STATES OF AMERICA

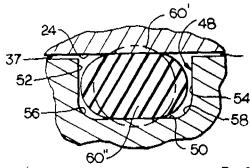
Inventor: ROBERT PAUL NICHTING.

Application No. 195/Mas/86 filed on March 17, 1986. Convention date: April 26, 1985; (No. 480205; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

A bearing race retention device for a bearing assembly mounted between a first member and a second member having a cylindrical surface, comprising: the bearing assembly having a first race secured to the first member, a plurality of bearing elements, and a second race defining a smooth notchless cylindrical surface and a preselected diametral alip fit clearance with the cylindrical surface of the second member, a swellable ring of unrestrained uniform circular cross section about its periphery and being of a preselected diameter; and an annular groove of generally rectangular cross section concentrically formed in the second member and defined generally by a cylindrical seat and first and second walls spaced apart 1.3 to 1.4 times the preselected diameter for containment purposes, the swellable ring being disposed in the groove and being compressed radially during installation of the second race and into a mean groove fill condition of at least 65% in volume prior to swelling of the ring, the ring being of a preselected thermoset elastomeric material capable of volumetrically swelling upon the exposure thereof to a petroleum-based lubricating fluid, the ring extending into the clearance with the lubricating fluid therein and substantially filling the groove upon swelling and frictionally holding the second race from rotating with respect to the second member.





Compl. Specn. 17 Pages.

Drg. 1 Sheet.

Ind. Cl. : 98--D--[GROUP--VII(2)] Int Cl.4: A 23 L 3/22,

166868

AN APPARATUS FOR HOMOGENEOUS HEAT TREAT-MENT OF LIQUIDS.

Applicant: SOCIETE DES PRODUITS NESTLE S.A., OF CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A COM-PANY INCORPORATED IN SWITZERLAND.

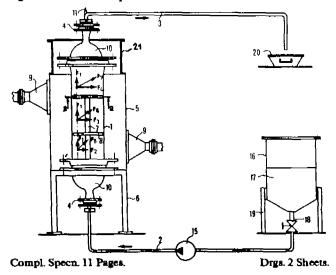
Inventor: TOAI LE VIET.

Application No. 237/Mas/86 filed on April 1, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 9 Claims

An apparatus for homogeneous heat treatment of liquids comprising: a vertically positioned cylindrical tube, having an inlet and an outlet at its ends for receiving and discharging a liquid; a stationary column within a central portion of the tube extending from the inlet end of the tube for at least a portion of a height of the tube; at least one perforated plate arranged within the tube perpendicularly to the axis of the column and the tube; and at least one microwave energy source positioned outside of the tube, the said energy source capable of generating a microwave energy field which produces a helical swirling movement of the liquid in the tube.



Int. Cl.<sup>4</sup>: —B 07 B 7/083 Ind. Cl.: —167G—[GROUP—XXXIV(4)]

166869

### SEPARATOR FOR SORTING PARTICULATE MATERIAL.

Applicant : Fit SMIDTH & CO. A/S, A DANICH COMPANY OF 77 VIGURSLEY ALLE, DK-2500 VALBY, COPENHAGEN, DENMAF (

Inventor: JAN FOLSBERG.

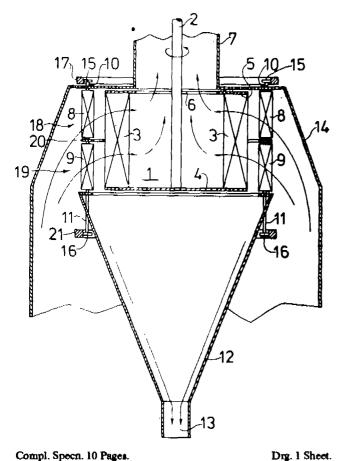
Application No. 286/Mas/86 filed on April 17, 1986.

Convention date: June 3, 1985; (No. 8513968; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 4 Claims

Asoparator for sorting particulate material into a fine fraction and a coarse fraction, the separator comprising a rotor (1) with a substantially vertical axis and vanes (3), an adjustable guide vane system (8, 9) surrounding the rotor and a housing encasing the guide vane system (8,9) and the rotor and having one or more inlet ducts (14) for the supply of conveying gas and unsorted material, an outlet duct (7) from at least one end of the separator discharging the separated fine material fraction suspended in the conveying gas and an outlet duct (12) beneath the rotor and the guide vane system for discharging the separated coarse material fraction for further treatment, characterised in that the guide vane system consists of two or more annular guide vane sets (8, 9) surrounding the rotor (1) and being axially offset relatively to one another and in that the guide vanes of the different guide vane sets (8, 9) are separately rotatable about their longitudinal axes.



I- Cl.: —55—E.4—[XIX(1)] Cl. 4—A 61 K 31/735.

166870

AN IMPROVED PROCESS FOR PREPARING THERAPEU-TICALLY USEFUL DEXTRAN GRAIN POLYMERS.

Applicant: BIOGAL GYOGYSZERGYAR, OF H-4042 DEB-RECEN, PALLAGI UT 13 HUNGARY, OF HUNGARIAN NATIONALITY.

Inventors: (1) JANOS ERDEI, (2) IMRE SUTO, (3) MAGDOLNA POCS, (4) ISTVAN CSERNUS, (5) KATALIN BOOR,

(6) SANDOR JANCSO, (7) ANTAL KOVACS, (8) ILONA KISS NEE LOOS, (9) MARIA BALINT NEE HOCK, (10) KATALIN KOVACS NEE HADADY, (11) GYORGY BACSA, (12) ISTVAN KOVACS.

Application No. 386/Mas/86 filed on May 20, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 3 Cliams

An improved process for the preparation of a therapeutically useful crosslinked dextran grain polymer which comprises swelling the dextran grain polymer crosslinked with epichlorohydrin by known means, in water at a pH value of 1.0 to 5.5, suitably at a pH value of 4.0 while stirring, removing the acidic water and dehydrating by using ethanol, removing the supernatant thus obtained while stirring, swelling the dehydrated grain polymer in ion-free water, washing it until acid-free, dehydrating and/or drying it, classifying it according to the particle size.

Compl. Specn. 12 Pages.

Drg. NIL.

CLASS: 146-C

Int. Class: B 60 t 1/00, 8/00, 10/00

166871

DEVICE FOR MONITORING THE PRESSURE IN A FLUID CARRYING CONDUIT.

Applicant: KELSEY HAYES COMPANY, OF 38481 HURON RIVER DRIVE, ROMULUS, MICHIGAN 48174, U.S.A.

Inventor: RICHARD LOUIS ZENKER.

Application No. 798/Cal/87 filed on October 13, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

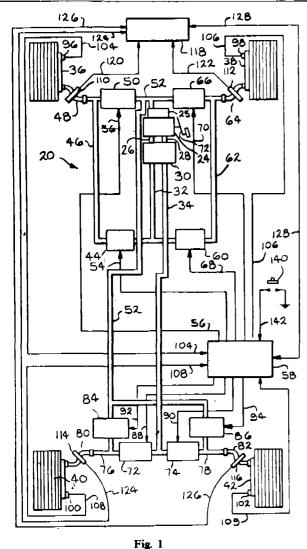
## 9 Claims

A device for monitoring the pressure in a fluid-carrying conduit, comprising:

clamping means engageable with an exterior surface portion of the fluid-carrying conduit, said clamping means including a portion deflectable in response to changes in the dimension of the exterior portion, the dimension of the exterior portion of the conduit being representative of the fluid pressure in the conduit;

said clamping means being isolated from direct contact with the fluid within the conduit; and

sensing means coupled to said deflectable portion for generating a signal representative of the fluid pressure in the conduit.



Compl. Specn. 20 Pages.

Drgs. 4 sheets.

166872

CLASS: 150-A, C Int. Cl: F 16 1 19/00, 21/00.

PIPE CONNECTING MEMBER OF PLASTICS MATERIAL.

Applicant: GEORG FISCHER AG, OF CH-8201 SCHAFF-HAUSEN, SWITZERLAND.

Inventor: WERMELINGER JORG.

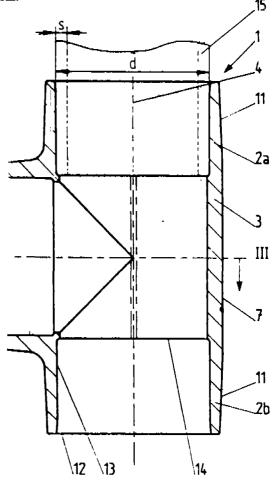
Application No. 815/Cal/87 filed on October 19, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutts.

### 12 Claims

A pipe connecting member of plastics material for pressurized fluid lines, the pipe connecting member having sleeve portions and a middle portion extending between and connecting the sleeve portions, the sleeve portions adapted to receive in a tightly sealed manner the pipes to be connected, the middle portion having an outer surface circular in cross-section wherein the improvement comprises that the

middle portion has a wall thickness which changes continuously in circumferential direction, the middle portion having an inner surface with two inner surface area portions, the inner surface area portions, extending eccentrically relative to the outer surface of the middle portions.



Compl Specn. 13 Pages.

Drgs. 3 sheets.

166873

CLASS: 48-B. Int. Class: H 01 r 4/00.

CUTTING/CLAMPING TERMINAL ELEMENT FOR ELECTRICAL CONDUCTORS.

Applicant: KRONE AKTIENGESELLSCHAFT, OF BEES-KOWDAMM 3-11, D-1000 BERLIN 37, WEST GERMANY.

Inventor: (1) HERMANN HERFORT, (2) GUNTER HEGNER.

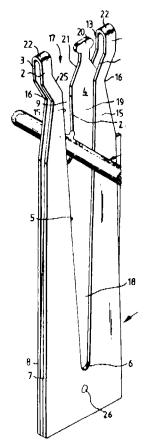
Application No. 858/Cal/87 filed on November 02, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

# 9 Claims

Cutting/clamping terminal element for electrical conductors consisting of a clamping piece and of at least one elastic clamping leg and of a clamping alot for the conductor formed between said clamping piece and said clamping leg, said clamping alot being limited by sharp

edgea, characterized by that two clamping legs (2, 3: 12, 13) are assigned to the clamping piece (4) its front and rear side, and that the sharp edges (15, 24) of the two clamping legs (2, 3 or 12, 13 resp.) and of the clamping piece (4) cut into the insulation (11) and contact the core (10) of the conductor (14) in the clamping alot (9) at in total three cutting positions.



Compl. Specn. 9 Pages.

Drgs. 5 sheets.

166874

CLASS:

Int. Class: B 25 B, 19/00.

B 25 B, 21/02.

### IMPACT WRENCH.

Applicant: MOSKOVSKOE NAUCHNO-PRIIZVODSTVEN-NOE OBIEDINENIE PO MEKHANIZ IROVANNOMU STROITELNOMU INSTRUMENTU I OTDELOCHNYM MASHINAM (NPO "VNIISMI"), OF MOSKOVSKAYA OBLAST, KHIMKI, LENINGRADSKAYA, ULITSA, 29, USSR.

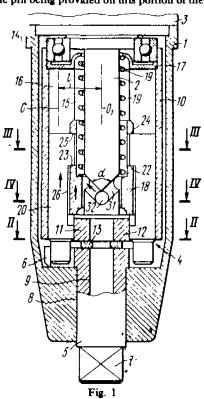
Inventors: 1. GEORGY AFANASIEVICH ANTIPOV, 2. MIKHAIL LYOVICH GELFAND, 3. BORIS GRIGORIEVICH GOLDSHTEIN, 4. GENNADY ARKADIEVICH KORNILIEV, 5. NIKOLAI STANISLAVOVICH LAVNIKOV, 6. YAKOV ISAAKOVICH TSIPENJUK, 7. PETR STEPANOVICH YAKUBOVSKY.

Application No.: 867/CAL/1987 filed on November 04, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 5 Claims

An impact wrench comprising a casing accommodating a rotatable anvil with a portion for the attachment of a socket wrench and a shaft coupled to a drive and supporting a hammer whose body has one end thereof facing towards the anvil, the hammer body being provided with an axial passage and at least two longitudinally extending passages each accommodating a pin mounted for axial reciprocations between two positions, the pin being engaged with the anvil in one position and having a bearing surface engageable, during the pin movement into the other position, with a respective bearing surface of the driving member which is coupled to the shaft so as to perform rotation and axial movement between two positions and which is coupled to the hammer body for rotation together therewith and cooperates with a spring for moving the driving member into a position in which the pins are engaged with the anvil, characterised in that the longitudinally extending passages open into the axial passage of the hammer body, and the driving member is received in, and guided by, the axial passage during movement, each pin having a portion protruding into the axial passage of the hammer body, the bearing surface of the pin being provided on this portion of the pin.



Compl. Specn. 20 Pages.

Drgs. 5 sheets.

Class: 32 B, 40 E, Int. Class: C 07 C 7/14.

PROCESS FOR THE PREPARATION OF P-XYLENE OF A PURITY OF AT LEAST 99.5%.

Applicant: KRUPP KOPPERS GMBH, OF ALTENDORFER STRASSE 120, D-4300 ESSEN 1, WEST GERMANY.

Inventors: GUNTER PUPPEL.

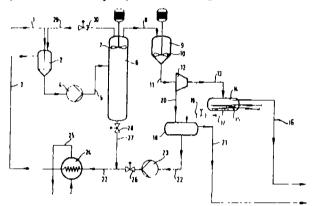
Application No. 922/CAL/1987 filed on November 25, 1987.

166875

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 8 Claims

Process for the preparation of p-xylene of a purity of at least 99.5% from an initial product, the p-xylene content of which is at least 99%, characterized in that the initial product is passed in the liquid state into an inertliquid such as herein described, the temperature of which is below the melting point of pure p-xylene, whereupon the crystal phase precipitating with stirring is separated from the inert liquid in a separator device and is then melted, liquid residues still present in the melting device being separated in a manner such as herein described from the molten crystals and the latter then being taken off as p-xylene of the desired purity from the melting device.



Compl. Specn. 9 Pages.

Drg. 1 sheet.

CLASS: 32 F<sub>1</sub> Int. Cl.: C 07 C 50/04

166876

PROCESS FOR THE PRODUCTION OF HIGH-PURITY TETRACHLORO-1, 4-BENZOQUINONE.

Applicant: HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY

Inventors: 1. OTTO ARNDT, 2. THEODOR PAPENFUHS.

Application No. 43/Cal/1988 filed on January 18, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

# 4 Claims

A process for the preparation of high-purity tetrachloro 1, 4-benzoquinone by the action of hydrogen peroxide and hydrochloric acid on hydroquinone, which comprises causing 3.8 to 4.2 times the molar quantity of 30 to 37% hydrochloric acid and 1.9 to 2.1 times the molar quantity of 50 to 35% hydrogen peroxide, to act at 5 to 50°C on 1 mole of hydroquinone in at least 12 times the molar quantity of 30 to 37% hydrochloric acid, then heating the resulting suspension, which essentially contains 2, 5-dichlorohydroquinone, to 45 to 55°C and again causing to act on it, at 50 to 95°C, 3.8 to 4.2 times the molar quantity of 30 to 37% hydrochloric acid and 1.9 to 2.1 times the molar quantity of 50 to 35% hydrogen peroxide, in each case based on the hydroquinone used, and finally adding to the suspension, which is now essentially composed of tricloro-1, 4-benzoquinone, 1.9 to 2.1 times the molar quantity of hydrochloric acid of the said concentration range, and 0.95 to 1.05 times the molar quantity of hydrogen

peroxide of the said concentration range, in each case based on the hydroquinone used, at 95 to 115°C, sufficiently slowly for no chlorine to escape.

Compl. Specn. 13 pages.

Drys. nil.

CLASS: 33 D & E Int. Cl.: B 22 C 9/00. 166877

MOULD LUBRICANT EXHAUSTING APPARATUS FOR KNOCKING-OUT MECHANISM.

Applicant: KABUSHIKI KAISHA KOMATSU SEISA-KUSHO, OF 3-6, AKASAKA 2-CHOME, MINATO-KU, TOKYO, JAPAN.

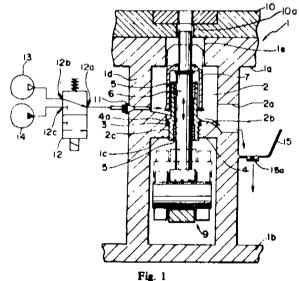
Inventors: CHIEO URATA.

Application No.: 267/Cal/1988 filed on March 30, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 5 Claims

A mould lubricant exhausting apparatus for a knocking-out mechanism in which mould lubricant overflowed along a knock-out bar and accumulated in a bed is led into a reserving chamber formed around said knock-out bar to exhaust said mould lubricant through an exhaust port provided at said reserving chamber comprising: a nozzle disposed at an end thereof in said reserving chamber, and an air pump connected to a base end of said nozzle for supplying air to said nozzle for forcibly exhausting said mould lubricant accumulated in said reserving chamber.



Compl. Specn. 12 pages.

Drgs. 2 sheets.

CLASS: 48 c & d 3, 4 Int. Cl.: H 01 B 3/00. 166878

### A SUSPENSION INSULATOR.

Applicant: NGK INSULATORS, LTD., OF 2-56, SUDA-CHO, MIZUHO-KU, NAGOYA CITY, AICHI PREF., JAPAN.

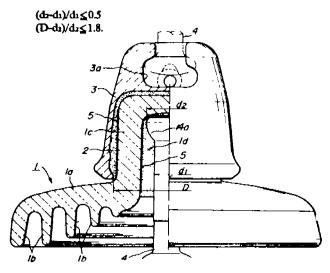
Inventors: 1. AKIHIRO WATANABE, 2. HIROSHI NOZAKI, 3. MITSUHARU OKAMOTO.

Application No. 322/CAL/1988 filed on April 20, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 1 Claim

A suspension insulator, comprising an insulating member having an annular shed with a cylindrical core formed at a central portion thereof, the core having a pin-receiving hole formed on the central part thereof, a metal cap with an inside diameter D fitted on and cemented to outer surface of the core of the insulating member, and a metal pin cemented to the inside of the pin-receiving hole, cemented part of the pin in the pin-receiving hole having a large-diameter portion with an outside diameter d2 and a rod portion with an outside diameter d2 the inside diameter D of the metal cap and the outside diameters d1 and d2 of the metal pin satisfying conditions of



Compl. Specn. 14 pages.

Drgs. 4 sheets.

CLASS: 40 F 166879

Int. Cl.: A 61 J 3/00, 3/06, 3/07, 3/08, 3/10.

METHOD OF PREPARING CONTROLLED RELEASE DELIVERY MATREX

Applicant: SMT. SURANJANA ROY, OF I-A/9, KUSTIA ESTATE, CALCUTTA-700039 WEST BENGAL, INDIA.

Inventors: 1. PROF. BIJAN KUMAR GUPTA, 2. DR. (MRS.)
MANJUSREE PAL.

Application No.: 372/CAL/1988 filed on May 06, 1988.

Complete specification left on 5th May 1989.

Appropriate Office for Opposaition Proceedings (Rule 4, Patenta Rules, 1972), Patent Office, Calcutta.

### 4 Claims

A method of preparing controlled release delivery matrix for active substances, as herein defined, comprising forming a water-in-oil emulsion of the desired active substance, a hydrophilic polymer, such as herein exemplified, and a hydrophobic polymer, such as herein exemplified, in the ratio of 1:1:1, or 1:2:1, or 2:1:1 respectively, and slowly pouring the emulsion, so formed, in an aqueous solution of a surface active agent, such as herein exemplified, with continuous stirring thereof, to result in two-ply walled soft microcapsules of the active substance, followed by chilling of the said soft microcapsules to harden the microcapsules, and, if necessary, desired dosage unit of the latter being encapsulated with soft gelatin capsule in known manner.

Compl. Specn. 16 pages. Provn. Specn. 8 pages. Drgs. Nil.

CLASS: 19L

166880

Int. Cl.: B 41 M 5/16.

A COATED SHEET FOR USE IN A PRESSURE-SENSITIVE RECORD ELEMENT.

Applicant: NASHUA CORPORATION, OF 44 FRANKLIN STREET, NASHUA, NEW HAMPSHIRE 93061, UNITED STATES OF AMERICA.

Inventors: 1. GEORGE OLIVIER LANGLAIS, 2. PAT YOUNG HER WANG, 3. JOSEPH STANLEY CHAPLICK.

Application No. 457/CAL/1988 filed on June 03, 1988.

Divisional date 28th November 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 9 Claims

A coated sheet for use in a pressure-sensitive record element which, upon application of pressure, releases a colour-forming material said sheet comprising a substrate having disposed on a surface thereof an adhered, dried coating having been formed from a composition comprising:

Carboxymethylcellulose such as herein before described a salt of a polyvalent metal, a wall-forming carboxylated acrylic resin, an organic cross-linker, spacer particles, and a colourforming dyedissolved in an oil solvent,

the materials being present in the composition in the following parts by weight for each 100 parts (dry weight) carboxymethylcellulose used:

Material	Parts		
Metal Salt	4.412.2		
Acrylic resin	50—200		
Cross-linker	10—150		
Dye and Oil	300—1000		
Spacer Particles	100500		

said materials being present in the formulation in amounts sufficient to provide a total non-acqueous content of at least 30% by weight and a Brookfield viscosity at 76°F of from 50 to 5000 cps, present at a coating weight greater than 3.00 grams per square meter.

Compl. Specn. 19 Pages.

Drg. 1 sheet.

770/Maa/89.

865/Cal/89

981/Del/89.

926/Del/89

852/Cal/89

841/Cal/89

889/Cal/89

791/Mas/89

"F"

877/Del/89, 941/Del/89,

Name indexes of Applications for Patents for the month of October. Appln. No. 1989 (Nos. 816/Cal/89 to 912/Cal/89/ 268/Bom/89 to 293/Bom/89, Name 727/Mas/89 to 796/Mas/89 and 874/Del/89 to 955/Del/89. "C"-Contd. 879/Del/89, 893/Del/89, Council of Scientific & Industrial Name Appln. No. 894/Del/89, 895/Del/89. Research. 896/Del/89, 897/Del/89, "A" 898/Del/89, 899/Del/89, 900/Del/89, 901/Del/89, A.E. Bishop & Associates Pty. LTd. 870/Ca1/89 902/Del/89, 903/Del/89, AGIP S.p.A. 767/Mas/89 904/Del/89, 905/Del/89, Akerlund & Rausing Licens 973/Del/89 906/Del/89, 946/Del/89, Aktiebolag. 947/Del/89, 948/Del/89, Allied Signal Inc. 874/Del/89, 880/Del/89 949/Del/89, 950/Del/89, Allied Tube & Conduit Corporation. 771/Mas/89 951/Del/89, 952/Del/89, Alpha Beta Technology. 905/Ca1/89 953/Del/89, 954/Del/89, Ammonia casele S.A. 764/Mas/89 955/Del/89, 956/Del/89, Asea Brown Boveri Ltd. 744/Mas/89 957/Del/89, 958/Del/89, Associated Cement Companies Ltd., 274/Bom/89, 275/Bom/89. 959/Del/89, 988/Del/89. The 922/Del/89, 924/Del/89. Courtaulds Coatings Ltd. 890/Del/89, 891/Del/89. Atreya, S.K. Australian Commercial Research & "D" 816/Cal/89 Development Ltd. Dalmine SpA. 846/Cal/89 Dasgupta, S 840/Cal/89 "B" 989/IDe1/89 De Beers Industrial Diamond Division (Proprietary) Ltd. BASF Akteingesellschaft. 793/Mas/89 Deodhar Electro Design (P) Ltd. 281/Bom/89 BASF Lacke Farben Aktiengesellschaft 736/Mas/89 Devilbiss Co., The 886/Del/89, 887/Del/89, B.F. Goodrich Co. The 918/Del/89, 960/Del/89. 889/Del/89. BP Chemicals Ltd. 966/Del/89, 971/Del/89 Devtech Inc. 917/Del/89 Babcock & Wilcox Co. The 869/Ca1/89 919/Del/89, 920/Del/89. Dhingra, H. Balkrishnan, P.M. 290/Bom/89 896/Cal/89 Dianov, LM. Balancing Instruments & Equipments 283/Bom/89 889/Cal/89 Dobrovinsky, L.A. (MIRAJ) P. Ltd. Dorr Oliver Incorporated 914/Del/89 Baranchugov, V.A. 896/Ca1/89 Dow Chemical Co. The 761/Mas/89 Barry L. Butler, 964/Del/89 Du Pont Canada Inc. 861/Cal/89 BEECHAM GROUP p.l.c. 741/Mas/89 "E" 875/Ca1/89 Bertek, Inc. Bespak p.l.c. 784/Maa/89 EDAP International 984/TDe1/89 Bioquip Australia Pty. Ltd. 788/Mas/89 E.I. Du Pont De Nemours Co. 862/Cal/89, 874/Cal/89, 835/Cal/89, 836/Cal/89 Biswas S.K. 882/Cal/89, 883/Cal/89, 943/Del/89 Bjuro Studiow projektow I Realizacji 886/Cal/89, 888/Cal/89. Inwestycji Przemyslu Nieorga-Esco Corporation, 965/Cal/89 nicznego "BIPROKWAS". Eirich, H. 876/Cal/89 Blendax GmbH. 967/Del/89 Eirich, P. 876/Cal/89 889/Ca1/89 Bobkina, M.M. Eirich, W. 876/Cal/89 Bonas machine Co. Ltd. 961/Del/89 Electricity Council & Chamberlin & 892/Del/89 Brady International Corporation. 851/Cal/89 Hill p.l.c. British Aerospace Public Ltd. Co. 779/Mas/89 Electroscan Corporation 757/Mas/89 Business Forms Ltd 817/Cal/89, 818/Cal/89, Emerson Electric Co. 837/Cal/89, 838/Cal/89, 819/Cal/89, 820/Cal/89. 839/Ca1/89. Emitec Gesellschaft Fur Emis-831/Cal/89, 895/Cal/89 "C" sionstechnologie Mbh. Engelhard Corporation. 877/Cal/89 C.R.Bard, Inc. 916/Del/89 English Electric Co. of India Ltd. The 754/Mas/89, 755/Mas/89, CSIR. 750/Mas/89

Ethicon, Inc.

Fibronit S.r.l.

Fidia S.p.A.

Fireer, S.M.

Exxon Chemical Patents Inc.

Fernandez, V.L.D.F.

Fives-Cail Babcock

772/Mas/89

749/Maa/89

277/Bom/89

277/Bom/89

909/Cal/89

753/Mas/89

932/Del/89

909/Del/89, 911/Del/89.

Caterpillar Inc.

Colah, H.K.

Colah, K.H.

Chevron Research Co.

Colgate Palmolive Co.,

Compagnie General

Cosmo Films Ltd.

Combustion Engineering, Inc.

Michelin-Michelin and CIR.

Des establishments

Name	Appln. No.	Name	Appln. No.
"G"	··	"K-Contd.	
G & H Technology, Inc.	790/Mas/89	Kaiser, T.	
Gawande, A.A.	285/Bom/89, 286/Bom/89,	792/Mas/89	
Dawattee. A.A.	287/Bom/89, 288/Bom/89.	Kalamdani, M.R.	
General Electric Co.	287/BOIII/89, 288/BOIII/89. 911/Cal/89	282/Bom/89	
General Foods Corporation	991/Del/89	Kelsey-Hayes Co.	
General Instrument Corporation	765/Mas/89	878/Cal/89, 907/Cal/89.	
Genetica Institute Inc.		Kerr-McGee Chemical Corporation	
Georg Fischer Ag.	972/Del/89 906/Cal/89.	868/Cal/89	
Gerssimov, V. D.		Khamaria, R.N.	
Geratz, J. D.	896/Cal/89	882/Del/89	
•	866/Cal/89	Kharkovsky Meditsinsky Institut	
Gerin, M.	748/Mas/89	992/Del/89	
Gopalakrishnan, S.P.	760/Mas/89	Khenveń, O.J.	
Gopalaswamy, H.R.	292/Bom/89	889/Cal/89	
Gorbunov, E.D.	896/Cal/89	Klimova, T.V.	
Gould, G.	927/Del/89	Kolb, M.J.	853/Cal/89
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Gupta, V.	885/De1/89	Kooperativ Dish-USSR.	828/Cal/89
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"H"		Krone Aktiengesellschaft	884/Cal/89
		Кгирр Коррет СтвН	900/Cal/89
Hall, J.E.	866/Ca1/89	Krupp Widia GmbH	829/Cal/89, 854/Cal/89.
Haryana Sheet Glass Ltd.	893/Ca1/89	Kumar, S.	847/Cal/89
Henkel Kommanditgesellschaft auf	773/Maa/89	Kumar, S.A.	759/Mas/89
Aktien.		Kundu, G.G.	821/Cal/89
Himont Incorporated	758/Maa/89	Kyle, D.E.	866/Cal/89
Hindustan Lever Ltd.	269/Bom/89, 271/Bom/89 272/Bom/89	"L"	333, 233 37
Hoechst Aktiengesellschaft	880/Cal/89, 901/Cal/89.		
Hoechst India Ltd.	280/Bom/89	Lanxide Technology Co.	887/Cal/89
Hunter Doughlas Industries B.V.	963/IDel/89	Leikin, V.Z. Leonid Alexandrovich Mirkind-	896/Cal/89 832/Cal/89
"I"		USSR.	0/2/5-1/00 001/5-1/00
		Lubrizol Corporation, The	962/Del/89, 983/Del/89.
ICI Australia Operationa	915/Del/89	Luzin, P.M.	896/Ca1/89
Proprietary Ltd.		"M"	
ICI India Line	897/Cal/89	Maaschinenfabrik Rieter Ag.	751/Mas/89, 752/Mas/8
Ivg. Australia Ptyradd.	845/Cal/89	Madigan, S.M.	859/Cal/89
Imperial Chemical Industries PLC	930/Del/89, 931/Del/89.	Mansuri, M.I.	278/Bom/89
Infrasonik A.B. I	994/Del/89	Manville Corporation	902/Cal/89
Institute Chicheskoi Fiziki	834/Cal/89	Marathe Research Foundation	273/Bom/89
Akademi Nauk-U.S.S.R.		Martynenkova, R.A.	889/Cal/89
Institut Gornogo Dala Imeni A.A.	995/Del/89	Maschinenfabrik Rieter A.G.	732/Maa/89, 739/Maa/8
Skochinskogo			786/Maa/89.
Institut Strukturnoi Makrokinetiki	987/Del/89	Matsushita Electric Industrial Co. Ltd.	
Akademii Nauk U.S.S.R.		Mcconway & Torley Corporation	830/Cal/89
International Business Machines	910/Del/89	Mcneil-Ppc, Inc.	885/Cal/89
Corporation		Merck Patent Gesellschaft mit Beschrankter Haftung	879/Cal/89
<b>"</b> J"		Metallgesellschaft	894/Cal/89
	403 A f /00	Mirking, L.A.	889/Cal/89
Jairaj, G.	783/Mas/89	Miroslava Mikhailovna Babkina-	832/Cal/89
Johnson Matthey Public Ltd. Co.	912/Del/89	USSR.	
Jose Thaikattil. CAP	775/Mas/89	Mishra, A.C.	925/Del/89
Joshi, K.S.	747/Mas/89	Moskovsky Filiar Vsesojuznogo	834/Cal/89
Joshi, S.P.	747/Mas/89	Nauchno-Issledovaterslay Instituta	11 <del></del>
Joy, K.A.	727/Mas/89	Zhirov	
ĝi w p-tik		Monteiro, I.A.J.	279/Bom/89
"K"		Moser, J.	899/Cal/89
K. Subramaniam, Spring Loaded	777/Maa/89	Moskovskaya Tabachnaya Fabrika	833/Cal/89
Medianism	11111100A 03	"Yova" USSR.	·

Name	Appln. No.	Name	Appln. No.
"MContd.	*	"SContd."	
Motorola Inc.	921/Del/89, 923/Del/89,	Schmehling, G.	768/Maa/89
	929/Del/89.	Schmidt, P.	848/Cal/89
Mathu, T.	728/Mas/89	Sepracor, Inc.	796/Maa/89
"N"		Shek, K.C.	890/Cal/89
N		Shell Internationale Research Maats-	743/Mas/89, 776/Mas/89
Ngk Insulatora, Ltd.	849/Cal/89, 850/Cal/89.	chappij B.V.	980/IDe1/89.
Nabha, F.S.	913/Del/89	Shri Ram Institute for Industrial	933/IDel/89
Neradov, V.P.	896/Cal/89	Research	
New England Biolaba, Inc.	734/Maa/89, 735/Maa/89.	Shroff, R.D.	268/Bom/89
Nimbkar Agricultural Research	907/Del/89	Siemens Aktiengesellschaft	910/Cal/89
Institute		Sinni <b>ah</b> , N.S.V.	780/Mas/89, 781/Mas/89
Nitro Nobel Ab.	827/Cal/89	g	782/Mas/89.
Nitsberg, L.V.	889/Cal/89	Snamprogetti S.p.A.	767/Max/89
Nitto Kagaku Kogyo Kabushiki Kaish "O"	a 881/Del/89	Societe De Conseils De Recherches Et 'D'	875/Del/89, 876/Del/89.
· U		Societe des Produits Nestle S.A.	740/Mas/89
Oil & Natural Gas Commission	969/Del/89	Commonwealth Scientific & Industrial	788/Mas/89
Olga Julianovna Khenven-USSR.	832/Ca1/89	Research Organisation	545 A 4 100
Ono,T.	825/Cal/89	Southern Petrochemical Industries	745/Maa/89
Owens-Illinois Closure Inc.	794/Mas/89	Corporation Ltd.	742 0 5 100
Owens Illinois Plastic Product Inc.	737/Mas/89	Southern Research Institute	742/Mas/89
нъ»		Special Pneumatics Private Ltd.	881/Cal/89
· · · · · · · · · · · · · · · · · · ·		Stamicarbon B.V.	733/Maa/89
PED Ltd.	903/Cal/89	Standard Oil Co., The	945/IDel/89
PPG Industries Inc.	974/Del/89, 975/Del/89	Standipack PvL Ltd.	883/Del/89, 884/Del/89, 936/Del/89, 937/DEl/89
Parker, W.P.	989/Maa/89		938/Del/89, 968/Del/89.
Patel, M.E.	282/Bom/89	Steel Authority of India Ltd.	970/Del/89
Petainer S.A.	822/Cal/89	Steelsworth Ltd.	863/Cal/89
Peterson Manufacturing	985/IDel/89	Subramaniam, K.	777/Mas/89
Co. Inc.		Svetlana Mikhailovna Firger-USSR.	832/Cal/89
Piaggio Veicoli Europei S.r.l.	928/IDel/89	Svistunova, E.V.	889/Dal/89
Pilkington Plc.	738/Maa/89	<del>"I"</del>	
Polyfibre SA	842/Cal/89		
Procter & Gamble Co.	939/Del/89, 940/Del/89,	Takeda Chemical Industries Ltd.	769/Mas/89
The	976/IDeI/89.	Tagaonkar, G.S.	276/Bom/89
Puthuvoth, B.	766/Maa/89	Tecumseh Products Co.	795/Mas/89
		Tecvac Ltd.	843/Cal/89
"R"		Telemecanique,	935/Del/89
RXS Schrumpftechnik-Garnituren	844/Cal/89	Theikattil, J.	775/Maa/89
Gmbh.	-	Thompson, A.	746/Mas/89
Radukan, E.S.	889/Cal/89	Thompson Consumer Electronics,	934/Del/89
Rajvanshi, A.K.	907/Del/89	Thompson, J. Thompson, T.	746/Mas/89 746/Mas/89
Ralph Weber.	823/Cal/89	Tidwell R.R.	866/Cal/89
Rane, M.	778/Maa/89	Timex Corporation	871/Cal/89
Research Foundation of state	774/Maa/89	Todel, R.F.	270/Bom/89
university of New York.		Toshiba, K.K.	289/Bom/89
The		Toso, V.	872/Cal/89
Robert Bosch GmbH.	729/Maa/89	Troazt M.A.	763/Maa/89
Rover Group Ltd.	762/Mas/89	Trutzachler GmbH & Co.	826/Cal/89
Rowther, M.I.S.	756/Mas/89	"U"	
<b>"</b> S"		_	
_		UOP,	990/Del/89, 993/Del/89
SCM Corporation.	908/Cal/89	UTDC Inc.	986/Del/89
STC Components (Proprietary) Ltd.	982/Del/89	Unilever Plc.	860/Cal/89
Saini, G.C.	898/Cal/89	Union Carbide Canada Ltd.	785/Maa/89
Samsung Electron Devices Co. Ltd. 891/Cal/89, 892/Cal/89,		Union Carbide Chemicals &	787/Mas/89
	70 4 1/7 1 1/00 000 000 000 1 1/00		
<u>-</u>	904/Cal/89, 977/Del/89, 978/Del/89, 979/Del/89.	Plastice Co. Union Carbide Chemicals and	730/Mas/89

Name	Appln. No.	Class. 1.	No. 161772. Taparia Tools Limited, an Indan Company, at 20, Shaheed Bhagat Singh Road, Fort, Bombay 400 023, State of Maharashtra, India. "WRENCH". 8th January,	
"UConta	L"		1990.	
United Technologies Corporation University of Medicine & Dentistry of New Jersey	864/Cal/89 912/Cal/89	Class. 1.	No. 162093. Automatic Instruments Company, C-3/2, Mayapuri, Phase-II, New Delhi-110064, India, an Indian Partnership Concern. "Electric Iron". 11th May, 1990.	
"V"				
		Class. 3.	Nos. 161562 & 161564. Choksi Enterprise, an Indian Regis-	
Vadalia, N.D.	293/Bam/89		tered Partnership Firm. "Switch Socket".24th October,	
Vaidyanathan, L.G.I.	731/Maa/89		1989.	
Verma, K.P.S.	878/IDe1/89			
Viswanathan, S. Vaesojuzny Nauchno Isaledovatelaky: Proektny Institut Aljuminievoi, Magnievoi I Elektrodnoi Proniyah lennosti		Class. 3.	No. 161746. Parker Pen (Benelux) B.V. A Netherlands company of Parker House, 4817 BL Breds, Netherlands. A "Writing Instrument". Reciprocity date is 14th August, 1989. (U.K.).	
Vsesojuzny Nauchno-Issledovatelsky	867/Cal/89			
Prockinokonstruktorsky I Tekhnol	0-	Class. 3.	No. 161762. TIPS, L-1/3, Hauz Khaa Enclave, New Delhi-	
gichesky Institut Elektro Termiche kogo Oborudovania (Vniieto)	<b>8</b> -		110016, India, an Indian Proprietary Concern. "Computer Printer Ribbon Inking Machine". 29th December, 1989.	
"w"		G 1	No 1/1022 1/1024 1/102/ 1/1025 1/1026 1/1020 1/1020 NO. 1/102	
WL-1: M.C.	0.00/0/00	C1838. 3.	Nos. 161833, 161834, 161836, 161837, 161838, 161839. Richi Rich Products, A-18, Ram House, Middle Circle, Con-	
Warii, M.S. Westinghouse Electric Corporation	268/Bom/89 855/Cal/89, 856/Cal/89,		naught Place, New Delhi-110001, India and Indian Sole Proprietorship Concern. "TOY". 29th Janeury, 1990.	
White, J.P.	857/Cal/89, 858/Cal/89, 853/Cal/89		1 Topricionarip Colectii. 101 . 25th January, 1550.	
Wipro Information Technology Ltd.	284/Bom/89	Class 2	No. 161040 Technomy Mate Making Systems Limbert (Au-	
нүн	204,2011.05	C1888. 5.	No. 161949. Technova Plate Making Systems Limited (An Indian Company) at Laxmi Mills Estate, off. Dr. E. Moses Road, Mahalaxmi, Bombay-400 011, State of Maha-	
Yamada, H.	881/Del/89		rashtra, India. "CAP". 19th March, 1990.	
"Z"				
_		Class. 3.	No. 161981. Sajavat, a sole Proprietorship Concern, 210	
Zeman Bauelemente Produk- tionsgesellschaft m.b.h.	942/Del/89		Golf Links, New Delhi-110003 (India). "Fountain Horse" 27th March, 1990.	
REGISTRATION O	F DESIGNS	Class. 4.	No. 161877. The Coca-Cola Company, of 310 North Avenue, Atlanta, Georgia 30313, U.S.A., A JJS Company "Drinking Glass". 12th February, 1990.	
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		Nos. 1600	094, 161089 Class-3	

The date shown in the each entry is the date of registration of the design included in the entry.

- Class. 1. Nos. 161611 & 161612. Advance Travel Associate (a sole Proprietorship concern). "Passenger bus". 20th November, 1989.
- Class. 1. No. 161770. Lal Krishan Marwah, an Indian National, of 5F/6F Ansa Industrial Estate, Sakinaka, Bombay-400 072, State of Maharahtra, India. "Container". 8th January, 1990.

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